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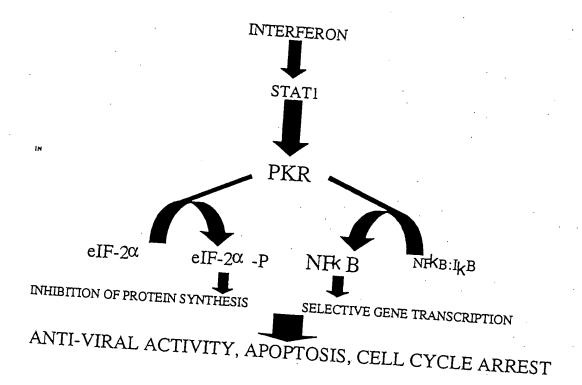


FIGURE 1

# TIME POST INFECTION (HOURS)

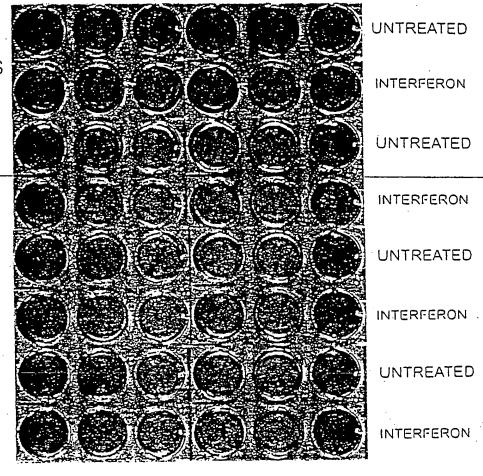
0 12 24 36 48 CTRL

NORMAL FIBROBLASTS

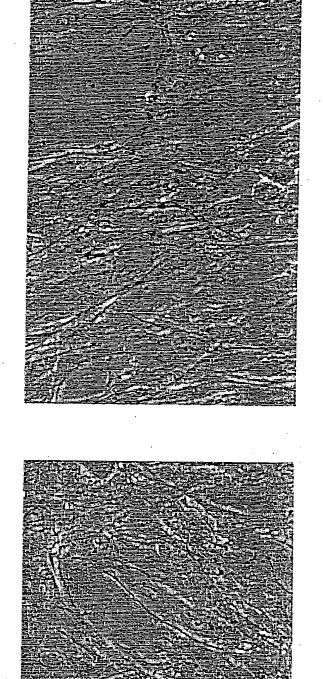
PROSTATE CARCINOMA

OVARIAN CARCINOMA

MELANOMA



# VSV INFECTION OF NORMAL HUMAN FIBROBLASTS



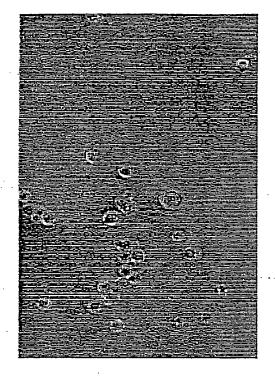
MOCK INFECTED

VSV MOI 1 PFU/18 HOURS

FIGURE 3A

# VSV 0.1PFU/18 HRS

# VSV INFECTION OF OVCAR433



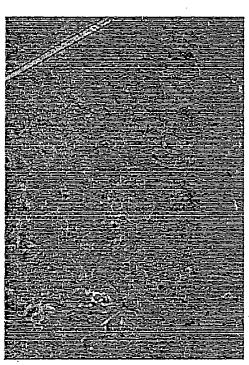
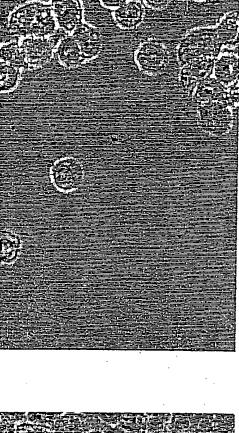
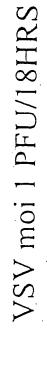


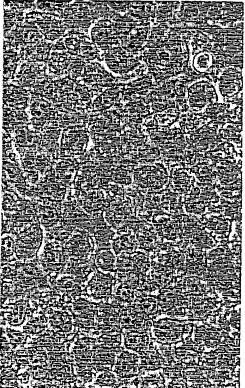
FIGURE 3B

# VSV INFECTION OF KI

# くしししつ







MOCK INFEC

FIGURE 3C

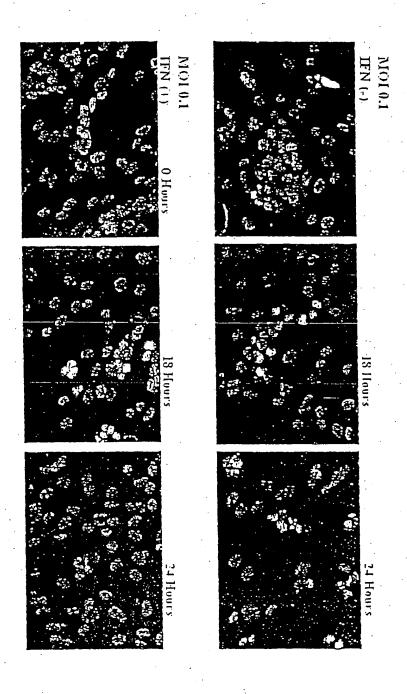


FIGURE &

Nude Mouse Tumours

FIGURE 15



FIGURE 6

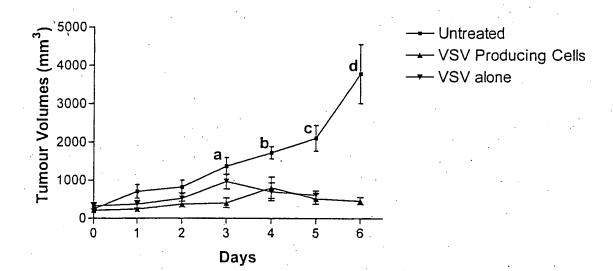
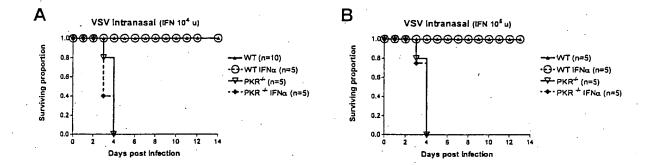


FIGURE 7



FIGURES 8A AND 8B

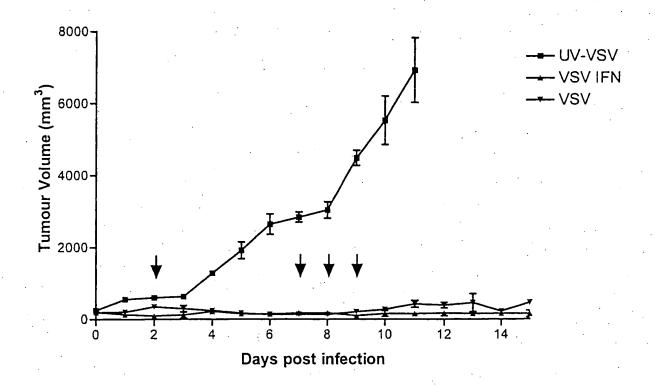


FIGURE 9

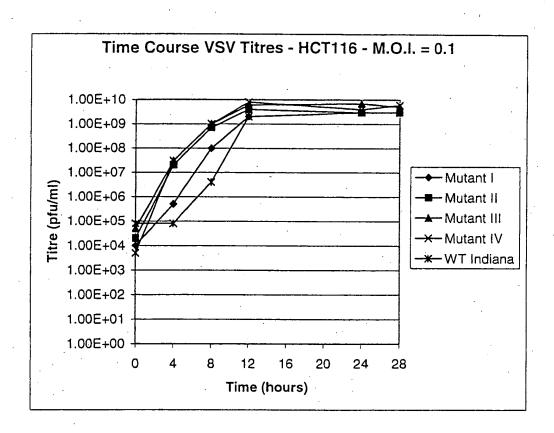


FIGURE 10A

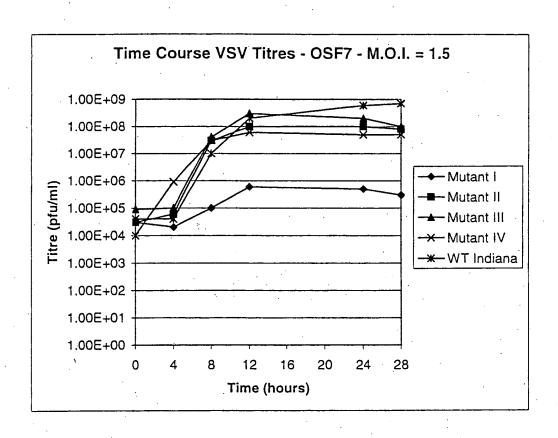


FIGURE 10B

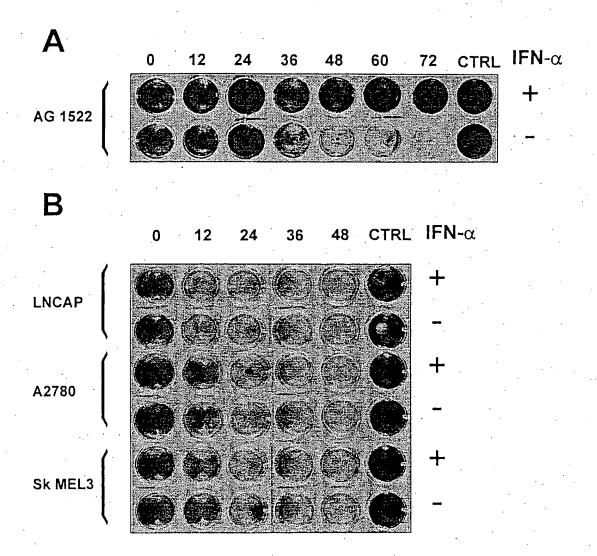


FIGURE 11

# Hours post infection

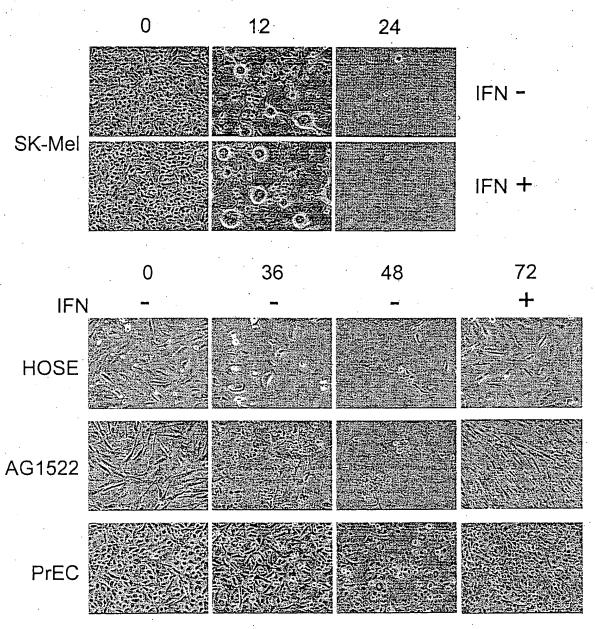


FIGURE 12

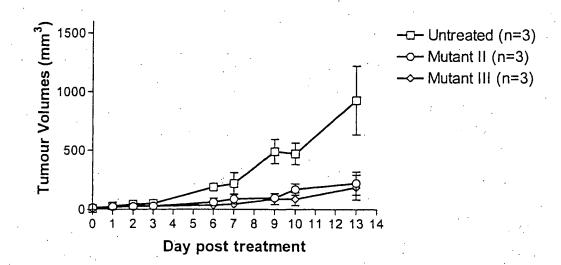


FIGURE 13

			1
GenBank			ATGTCTGTTACAGTCAAGAGAATCATTGACAACACAGTCATAGTTCCAAAAACTTCCTGCA
		nucl.	ATGTCTGTTACAGTCAAGAGAATCATTGGCAACACAGTCATAGTTCCAAAACTTCCTGCA
M2	N	nucl.	ATGTCTGTTACAGTCAAGAGAATCATTGACAACACAGTCATAGTTCCAAAAACTTCCTGCA
		nucl.	ATGTCTGTTACAGTCAAGAGAATCATTGACAACACAGTCATAGTTCCAAAACTTCCTGCA
M4	N	nucl.	
			61 120
GenBank	N	nucl.	AATGAGGATCCAGTGGAATACCCGGCAGATTACTTCAGAAAATCAAAGGAGATTCCTCTT
HR	N	nucl.	AATGAGGATCCAGTGGAATACCCGGCAGATTACTTCAGAAAATCAAAGGAGATTCCTCTT
		nucl.	AATGAGGATCCAGTGGAATACCCGGCAGATTACTTCAGAAAATCAAAGGAGATTCCTCTT
м3	N	nucl.	AATGAGGATCCAGTGGAATACCCGGCAGATTACTTCAGAAAATCAAAGGAGATTCCTCTT
M4	N	nucl.	
			121 180
GenBank			TACATCAATACTACAAAAAGTTTGTCAGATCTAAGAGGATATGTCTACCAAGGCCTCAAA
HR:	N	nucl.	TACATCAATACTACAAAAAGTTTGTCAGATCTAAGAGGATATGTCTACCAAGGCCTCAAA
M2	N	nucl.	TACATCAATACTACAAAAAGTTTGTCAGATCTAAGAGGATATGTCTACCAAGGCCTCAAA
мз	N	nucl.	TACATCAATACTACAAAAAGTTTGTCAGATCTAAGAGGATATGTCTACCAAGGCCTCAAA
M4	N	nucl.	
			•
		٠.	181 240
GenBank	N	nucl.	TCCGGAAATGTATCAATCATACATGTCAACAGCTACTTGTATGGAGCATT\(\overline{\ove
	-	nucl.	TCCGGAAATGTATCATCATGTCAACAGCTACTTGTATGGAGCATTGAAGGACATC
_ M2	N	nucl.	TCCGGAAATGTATCATCATGTCAACAGCTACTTGTATGGAGCATTGAAGGACATC
МЗ	N	nucl.	TCCGGAAATGTATCAATCATGTCAACAGCTACTTGTATGGAGCATTGAAGGACATC
M4	N	nucl.	TCAATCATACATGTCAACAGCTACTTGTATGGAGCATTGAAGGACATC
		_	300
GenBank			CGGGGTAAGTTGGATAAAGATTGGTCAAGTTTCGGAATAAACATCGGGAAAAGGCAGGGGAT
		nucl.	CGGGGTAAGTTGGATAAAGATTGGTCAAGTTTCGGAATAAACATCGGGAAGGCAGGGGAT
		nucl.	CGGGGTAAGTTGGATAAAGATTGGTCAAGTTTCGGAATAAACATCGGGAAGGCAGGGGAT
		nucl.	CGGGGTAAGTTGGATAAAGATTGGTCAAGTTTCGGAATAAACATCGGGAAGGCAGGGGAT
M4	N	nucl.	$\tt CGGGGTAAGTTGGATAAAGATTGGTCAAGTTTCGGAATAAACATCGGGAAGGCAGGGGAT$
•			
			360
GenBank			ACAATCGGAATATTTGACCTTGTATCCTTGAAAGCCCTGGACGGGTACTTCCAGATGGA
		nucl.	ACAATCGGAATATTTGACCTTGTATCCTTGAAAGCCCTGGACGGTGTACTTCCAGATGGA
		nucl.	ACAATCGGAATATTTGACCTTGTATCCTTGAAAGCCCTGGACGGTGTACTTCCAGATGGA
		nucl.	ACAATCGGAATATTTGACCTTGTATCCTTGAAAGCCCTGGACGGTGTACTTCCAGATGGA
M4	N	nucl.	ACAATCGGAATATTTGACCTTGTATCCTTGAAAGCCCTGGACGGTGTACTTCCAGATGGA
		•	400
		_	361 420
GenBank			GTATCGGATGCTTCCAGAACCAGCGCAGATGACAAATGGTTGCCTTTGTATCTACTTGGC
		nucl.	GTATCGGATGCTTCCAGAACCAGCGCAGATGACAAATGGTTGCCTTTGTATCTACTTGGC
		nucl.	GTATCGGATGCTTCCAGAACCAGCGCAGATGACAAATGGTTGCCTTTGTATCTACTTGGC
		nucl.	GTATCGGATGCTTCCAGAACCAGCGCAGATGACAAATGGTTGCCTTTGTATCTACTTGGC
M4	N	nucl.	GTATCGGATGCTTCCAGAACCAGCGCAGATGACAAATGGTTGCCTTTGTATCTACTTGGC
			421 480
C D 1:			
GenBank		nucl.	TTATACAGAGTGGGCAGAACACAAATGCCTGAATACAGAAAAAAAGGCTCATGGATGG
HR		DUCI	- TITATIAC AGAGTIGGGCACACACACACACACACACACACACACACACACACA
140			
	N	nucl.	$\tt TTATACAGAGTGGGCAGAACACAAATGCCTGAATACAGAAAAAGGCTCATGGATGG$
м3	N N		

	481 540
GenBank N nucl.	ACAAATCAATGCAAAATGATCAATGAACAGTTTGAACCTCTTGTGCCAGAAGGTCGTGAC
HR N nucl.	ACAAATCAATGCAAAATGATCAATGAACAGTTTGAACCTCTTGTGCCAGAAGGTCGTGAC
M2 N nucl.	ACAAATCAATGCAAAATGATCAATGAACAGTTTGAACCTCTTGTGCCAGAAGGTCGTGAC
M3 N nucl.	ACAAATCAATGCAAAATGATCAATGAACAGTTTGAACCTCTTGTGCCAGAAGGTCGTGAC
M4 N nucl.	ACAAATCAATGCAAAATGATCAATGAACAGTTTGAACCTCTTGTGCCAGAAGGTCGTGAC
,	
	541 600
GenBank N nucl.	ATTTTTGATGTGGGGAAATGACAGTAATTACACAAAAATTGTCGCTGCAGTGGACATG
HR N nucl.	ATTTTTGATGTGGGGAAATGACAGTAATTACACAAAAATTGTCGCTGCAGTGGACATG
M2 N nucl.	ATTTTTGATGTGTGGGGAAATGACAGTAATTACACAAAAATTGTCGCTGCAGTGGACATG
M3 N nucl.	ATTTTTGATGTGTGGGGAAATGACAGTAATTACACAAAAATTGTCGCTGCAGTGGACATG
M4 N nucl.	ATTTTTGATGTGTGGGGAAATGACAGTAATTACACAAAAATTGTCGCTGCAGTGGACATG
	660
GenBank N nucl.	TTCTTCCACATGTTCAAAAAACATGAATGTGCCTCGTTCAGATACGGAACTATTGTTTCC
HR N nucl.	TTCTTCCACATGTTCAAAAAACATGAATGTGCCTCGTTCAGATACGGAACTATTGTTTCC
M2 N nucl.	TTCTTCCACATGTTCAAAAAACATGAATGTGCCTCGTTCAGATACGGAACTATTGTTTCC
M3 N nucl.	TTCTTCCACATGTTCAAAAAACATGAATGTGCCTCGTTCAGATACGGAACTATTGTTTCC
M4 N nucl.	TTCTTCCACATGTTCAAAAAACATGAATGTGCCTCGTTCAGATACGGAACTATTGTTTCC
	661 720
GenBank N nucl.	AGATTCAAAGATTGTGCTGCATTGGCAACATTTGGACACCTCTGCAAAATAACCGGAATG
HR N nucl.	AGATTCAAAGATTGTGCTGCATTGGCAACATTTGGACACCTCTGCAAAATAACCGGAATG
M2 N nucl.	AGATTCAAAGATTGTGCTGCATTGGCAACATTTGGACACCTCTGCAAAATAACCGGAATG
M3 N nucl.	AGATTCAAAGATTGTGCTGCATTGGCAACATTTGGACACCTCTGCAAAATAACCGGAATG
M4 N nucl.	AGATTCAAAGATTGTGCTGCATTGGCAACATTTGGACACCTCTGCAAAATAACCGGAATG
	721 780
GenBank N nucl.	TCTACAGAAGATGTAACGACCTGGATCTTGAACCGAGAAGTTGCAGATGAAATGGTCCAA
HR N nucl.	TCTACAGAAGATGTAACGACCTGGATCTTGAACCGAGAAGTTGCAGATGAGATGGTCCAA
M2 N nucl.	TCTACAGAAGATGTAACGACCTGGATCTTGAACCGAGAAGTTGCAGATGAGATGGTCCAA
M3 N nucl.	TCTACAGAAGATGTAACGACCTGGATCTTGAACCGAGAAGTTGCAGATGAGATGGTCCAA
M4 N nucl.	TCTACAGAAGATGTAACGACCTGGATCTTGAACCGAGAAGTTGCAGATGAGATGGTCCAA
	781 840
GenBank N nucl.	ATGATGCTTCCAGGCCAAGAAATTGACAAGGCCGATTCATACATGCCTTATTTGATCGAC
HR N nucl.	ATGATGCTTCCAGGCCAAGAAATTGACAAGGCCGATTCATACATGCCTTATTTGATCGAC
M2 N nucl.	ATGATGCTTCCAGGCCAAGAAATTGACAAGGCCGATTCATACATGCCTTATTTGATCGAC
M3 N nucl.	ATGATGCTTCCAGGCCAAGAAATTGACAAGGCCGATTCATACATGCCTTATTTGATCGAC
M4 N nucl.	ATGATGCTTCCAGGCCAAGAAATTGACAAGGCCGATTCATACATGCCTTATTTGATCGAC
111 11 11461.	
	841 900
GenBank N nucl.	TTTGGATTGTCTTCTAAGTCTCCATATTCTTCCGTCAAAAACCCTGCCTTCCACTTCTGG
HR N nucl.	TTTGGATTGTCTTCTAAGTCTCCATATTCTTCCGTCAAAAACCCTGCCTTCCACTTCTGG
M2 N nucl.	TTTGGATTGTCTTCTAAGTCTCCATATTCTTCCGTCAAAAACCCTGCCTTCCACTTCTGG
M3 N nucl	TTTGGATTGTCTTCTAAGTCTCCATATTCTTCCGTCAAAAACCCTGCCTTCCACTTCTGG
M4 N nucl.	TTTGGATTGTCTTCTAAGTCTCCATATTCTTCCGTCAAAAACCCTGCCTTCCACTTCTGG
** * * * * * * * * * * * * * * * * * *	

GenBank N nucl.  HR N nucl.  M2 N nucl.  M3 N nucl.  M4 N nucl.	960 GGGCAATTGACAGCTCTTCTGCTCAGATCCACCAGAGCAAGGAATGCCCGACAGCCTGAT GGGCAATTGACAGCTCTTCTGCTCAGATCCACCAGAGCAAGGAATGCCCGACAGCCTGAT GGGCAATTGACAGCTCTTCTGCTCAGATCMACCAGAGCAAGGAATGCCCGACAGCCTGAT GGGCAATTGACAGCTCTTCTGCTCAGATCCACCAGAGCAAGGAATGCCCGACAGCCTGAT GGGCAATTGACAGCTCTTCTGCTCAGATCCACCAGAGCAAGGAATGCCCGACAGCCTGAT GGGCAATTGAC
GenBank N nucl.  HR N nucl.  M2 N nucl.  M3 N nucl.  M4 N nucl.	961 GACATTGAGTATACATCTCTTACTACAGCAGGTTTGTTGTACGCTTATGCAGTAGGATCC GACATTGAGTATACATCTCTTACTACAGCAGGTTTGTTGTACGCTTATGCAGTAGGATCC GACATTGAGTATACATCTCTTACTACAGCAGGTTTGTTGTACGCTTATGCAGTAGGATCC GACATTGAGTATACATCTCTTACTACAGCAGGTTTGTTGTACGCTTATGCAGTAGGATCC GACATTGAGTATACATCTCTTACTACAGCAGGTTTGTTGTACGCTTATGCAGTAGGATCC GACATTGAGTATACATCTCTTACTACAGCAGCTTTGTTGTACGCTTATGCAGTAGGATCC
GenBank N nucl. HR N nucl. M2 N nucl. M3 N nucl. M4 N nucl.	1080 TCTGCGGACTTGGCACAACAGTTTTGTGTTGGAGATAACAATACACTCCAGATGATAGT TCTGCTGACTTGGCACAACAGTTTTGTGTTGGAGATAGCAAATACACTCCAGATGATAGT TCTGCTGACTTGGCACAACAGTTTTGTGTTGGAGATAGCAAATACACTCCAGATGATAGT TCTGCTGACTTGGCACAACAGTTTTGTGTTGGAGATAGCAAATACACTCCAGATGATAGT TCTGCTGACTTGGCACAACAGTTTTTGTGTTGGAGATAGCAAATACACTCCAGATGATAGT
GenBank N nucl.  HR N nucl.  M2 N nucl.  M3 N nucl.  M4 N nucl.	1081 1140 ACCGGAGGATTGACGACTAATGCACCGCCACAAGGCAGAGATGTGGTCGAATGGCTCGGA ACCGGAGGATTGACGACTAATGCACCGCCACAAGGCAGAGATGTGGTCGAATGGCTCGGA ACCGGAGGATTGACGACTAATGCACCGCCACAAGGCAGAGATGTGGTCGAATGGCTCGGA ACCGGAGGATTGACGACTAATGCACCGCCACAAGGCAGAGATGTGGTCGAATGGCTCGGA ACCGGAGGATTGACGACTAATGCACCGCCACAAGGCAGAGATGTGGTCGAATGGCTCGGA
GenBank N nucl.  HR N nucl.  M2 N nucl.  M3 N nucl.  M4 N nucl.	1141 1200 TGGTTTGAAGATCAAAACAGAAAACCGACTCCTGATATGATGCAGTATGCGAAAAACAGACA TGGTTTGAAGATCAAAACAGAAAACCGACTCCTGATATGATGCAGTATGCGAAACGAGCA TGGTTTGAAGATCAAAACAGAAAACCGACTCCTGATATGATGCAGTATGCGAAACGAGCA TGGTTTGAAGATCAAAACAGAAAACCGACTCCTGATATGATGCAGTATGCGAAACGAGCA TGGTTTGAAGATCAAAACAGAAAACCGACTCCTGATATGATGCAGTATGCGAAACGAGCA
GenBank N nucl.  HR N nucl.  M2 N nucl.  M3 N nucl.  M4 N nucl.	1260 GTCATGTCACTGCAAGGCCTAAGAGAGACAATTGGCAAGTATGCTAAGTCAGAATTT GTCATGTCACTGCAAGGCCTAAGAGAGACAATTGGCAAGTATGCTAAGTCAGAATTT GTCATGTCACTGCAAGGCCTAAGAGAGACAAATTGGCAAGTATGCTAAGTCAGAATTT GTCATGTCACTGCAAGGCCTAAGAGAGAGACAATTGGCAAGTATGCTAAGTCAGAATTT GTCATGTCACTGCAAGGCCTAAGAGAGAGACAATTGGCAAGTATGCTAAGTCAGAATTT
GenBank N nucl.  HR N nucl.  M2 N nucl.  M3 N nucl.  M4 N nucl.	1261 1269 GACAAATGA GACAAATGA GACAAATGA GACAAATGA GACAAATGA GACAAATGA

			1 60
GenBank	Na	a.a.	MSVTVKRIIDNTVIVPKLPANEDPVEYPADYFRKSKEIPLYINTTKSLSDLRGYVYOGLK
HR	Na	a.a.	MSVTVKRII NTVIVPKLPANEDPVEYPADYFRKSKEIPLYINTTKSLSDLRGYVYQGLK
м3	Na	a.a.	MSVTVKRIIDNTVIVPKLPANEDPVEYPADYFRKSKEIPLYINTTKSLSDLRGYVYQGLK
		a.a.	
		. •	<b>C1</b>
a			61
GenBank			SGNVSIIHVNSYLYGALKDIRGKLDKDWSSFGINIGKAGDTIGIFDLVSLKALDGVLPDG
		a.a.	SGNVSIIHVNSYLYGALKDIRGKLDKDWSSFGINIGKAGDTIGIFDLVSLKALDGVLPDG
		a.a.	SGNVSIIHVNSYLYGALKDIRGKLDKDWSSFGINIGKAGDTIGIFDLVSLKALDGVLPDG
M4	Nā	a.a.	SIIHVNSYLYGALKDIRGKLDKDWSSFGINIGKAGDTIGIFDLVSLKALDGVLPDG
		•	121
GenBank	Na	a.a.	VSDASRTSADDKWLPLYLLGLYRVGRTQMPEYRK LMDGLTNQCKMINEQFEPLVPEGRD
HR	Νā	a.a.	VSDASRTSADDKWLPLYLLGLYRVGRTQMPEYRKRLMDGLTNQCKMINEOFEPLVPEGRD
м3	Νā	a.a.	VSDASRTSADDKWLPLYLLGLYRVGRTQMPEYRKRLMDGLTNQCKMINEQFEPLVPEGRD
		a.a.	VSDASRTSADDKWLPLYLLGLYRVGRTQMPEYRKRLMDGLTNQCKMINEQFEPLVPEGRD
			181
GenBank	Νa	a.a.	IFDVWGNDSNYTKIVAAVDMFFHMFKKHECASFRYGTIVSRFKDCAALATFGHLCKITGM
. HR	Na	a.a.	IFDVWGNDSNYTKIVAAVDMFFHMFKKHECASFRYGTIVSRFKDCAALATFGHLCKITGM
М3	Na	a.a.	IFDVWGNDSNYTKIVAAVDMFFHMFKKHECASFRYGTIVSRFKDCAALATFGHLCKITGM
		a.a.	IFDVWGNDSNYTKIVAAVDMFFHMFKKHECASFRYGTIVSRFKDCAALATFGHLCKITGM
			241 300
GenBank	Νā	a.a	STEDVTTWILNREVADEMVQMMLPGQEIDKADSYMPYLIDFGLSSKSPYSSVKNPAFHFW
HR	Na	a.a.	STEDVTTWILNREVADEMVQMMLPGQEIDKADSYMPYLIDFGLSSKSPYSSVKNPAFHFW
М3	Na	ı.a.	STEDVTTWILNREVADEMVQMMLPGQEIDKADSYMPYLIDFGLSSKSPYSSVKNPAFHFW
M4	Na	a.a.	STEDVTTWILNREVADEMVQMMLPGQEIDKADSYMPYLIDFGLSSKSPYSSVKNPAFHFW
			360
GenBank			GQLTALLLRSTRARNARQPDDIEYTSLTTAGLLYAYAVGSSADLAQQFCVGD\(\frac{N}{M}\)KYTPDDS
HR	N a		GQLTALLLRSTRARNARQPDDIEYTSLTTAGLLYAYAVGSSADLAQQFCVGDSKYTPDDS
M3	Na	a.a.	GQLTALLLRSTRARNARQPDDIEYTSLTTAGLLYAYAVGSSADLAQQFCVGDSKYTPDDS
M4	N a	ı.a.	GQLTDIEYTSATTAGLLYAYAVGSSADLAAQFCVGDSKYTPDDS
			•
			361 420
GenBank	N a	ı.a.	TGGLTTNAPPQGRDVVEWLGWFEDQNRKPTPDMMQYAKRAVMSLQGLREKTIGKYAKSEF
HR	N a	ı.a.	TGGLTTNAPPQGRDVVEWLGWFEDQNRKPTPDMMQYAKRAVMSLQGLREKTIGKYAKSEF
М3	N a	a.a.	TGGLTTNAPPQGRDVVEWLGWFEDQNRKPTPDMMQYAKRAVMSLQGLREKTIGKYAKSEF
M4	N a	a.a.	TGGLTTNAPPQGRDVVEWLGWFEDQNRKPTPDMMQYAKRAVMSLQGLREKTIGKYAKSEF
			421 423
GenBank	N a	a.a.	DK.
		a.a.	DK.
		a.a.	DK.
		i.a.	DK.
	_		

			1 60
GenBank	P	nucl.	ATGGATAATCTCACAAAAGTTCGTGAGTATCTCAAGTCCTATTCTCGTCT@GATCAGGCG
HR	P	nucl.	ATGGATAATCTCACAAAAGTTCGTGAGTATCTCAAGTCCTATTCTCGTCTAGATCAGGCG
м2	Р	nucl.	ATGGATAATCTCACAAAAGTTCGTGAGTATCTCAAGTCCTATTCTCGTCTAGATCAGGCG
		nucl.	ATGGATAATCTCACAAAAGTTCGTGAGTATCTCAAGTCCTATTCTCGTCTAGATCAGGCG
		nucl.	ATGGATAATCTCACAAAAGTTCGTGAGTATCTCAAGTCCTATTCTCGTCTAGATCAGGCG
114	r	nuci.	ATGGATAATCTCACAAAAGTTCGTGAGTATCTCAAGTCCTATTCTCGTCTAGATCAGGCG
			61 120
GenBank	D	nucl	GTAGGAGAGATAGATGAGATCGAAGCACAACGAGCTGAAAAGTCCAATTATGAGTTGTTC
		nucl.	GTAGGAGATAGATGAGATCGAAGCACAACGAGCTGAAAAGTCCAATTATGAGTTGTTC
	_	nucl.	GTAGGAGAGATAGATGAGATCGAAGCACAACGAGCTGAAAAGTCCAATTATGAGTTGTTC
-		nucl.	GTAGGAGAGATAGATGAGATCGAAGCACAACGAGCTGAAAAGTCCAATTATGAGTTGTTC
M4	Р	nucl.	GTAGGAGAGATAGATGAGATCGAAGCACAACGAGCTGAAAAGTCCAATTATGAGTTGTTC
		•	121
ComPonie	-	1	CAAGAGGAMGGAGTGGAAGAGCATACTAMGCCCTCTTATTTTCAGGCAGCAGATGATTCT
GenBank			
	_	nucl.	CAAGAGGACGGAGTGGAAGAGCATACTAGGCCCTCTTATTTTCAGGCAGCAGATGATTCT
	_	nucl.	CAAGAGGACGGAGTGGAAGAGCATACTAGGCCCTCTTATTTTCAGGCAGCAGATGATTCT
M3	P	nucl.	CAAGAGGACGGAGTGGAAGAGCATACTAGGCCCTCTTATTTTCAGGCAGCAGATGATTCT
M4	P	nucl.	CAAGAGGACGGAGTGGAAGAGCATACTAGGCCCTCTTATTTTCAGGCAGCAGATGATTCT
			181 240
GenBank	P	nucl.	GACACAGAATCTGAACCAGAAATTGAAGACAATCAAGG📅TTGTATG🗒AC🚾GATCC🖫GAA
HR	P	nucl.	GACACAGAATCTGAACCAGAAATTGAAGACAATCAAGGCTTGTATGTA
M2	Ρ	nucl.	GACACAGAATCTGAACCAGAAATTGAAGACAATCAAGGCTTGTATGTA
	_	nucl.	GACACAGAATCTGAACCAGAAATTGAAGACAATCAAGGCTTGTATGTA
	_	nucl.	GACACAGAATCTGAACCAGAAATTGAAGACAATCAAGGCTTGTATGTA
***	-		dictional and control to the control of the control
-			241 300
GenBank	Р	nucl.	GCTGAGCAAGTTGAAGGCTTTATACAGGGGCCTTTAGATGACTATGCAATGAGGAAAGTG
		nucl.	GCTGAGCAAGTTGAAGGCTTTATACAGGGGCCTTTAGATGACTATGCGGATGAGGACGTG
	_	nucl.	GCTGAGCAAGTTGAAGGCTTTATACAGGGGCCTTTAGATGACTATGCGGATGAGGACGTG
		nucl.	GCTGAGCAAGTTGAAGGCTTTATACAGGGGCCTTTAGATGACTATGCGGATGAGGACGTG
			GCTGAGCAAGTTGAAGGCTTTATACAGGGGCCTTTAGATGACTATGCGGATGAGGACGTG
M4	P	nucl.	GCTGAGCAAGTTGAAGGCTTTATACAGGGGCCTTTAGATGACTATGCGGATGAGGACGTG
			301
GenBank	В	nua1	GATGTTGTATTMACTTCGGACTGGAAACMCCTGAGCTTGAATCMGACGAGCATGGAAAG
			GATGTTGTATTCACTTCGGACTGGAAACAGCCTGAGCTTGAATCCGACGAGCATGGAAAG
		nucl.	
		nucl.	GATGTTGTATTCACTTCGGACTGGAAACAGCCTGAGCTTGAATCCGACGAGCATGGAAAG
	-	nucl.	GATGTTGTATTCACTTCGGACTGGAAACAGCCTGAGCTTGAATCCGACGAGCATGGAAAG
M4	Ρ	nucl.	GATGTTGTATTCACTTCGGACTGGAAACAGCCTGAGCTTGAATCCGACGAGCATGGAAAG
.*			
			361 420
GenBank	_		ACCTTACGGTTGACAT@GCCAGAGGGTTTAAGTGGAGAGCAGAAATCCCAGTGGCTTT@G
HR	P	nucl.	ACCTTACGGTTGACATTGCCAGAGGGTTTAAGTGGAGAGCAGAAATCCCAGTGGCTTTTG
M2	Ρ	nucl.	ACCTTACGGTTGACATTGCCAGAGGGTTTAAGTGGAGAGCAGAAATCCCAGTGGCTTTTG
М3	Ρ	nucl.	ACCTTACGGTTGACATTGCCAGAGGGTTTAAGTGGAGAGCAGAAATCCCAGTGGCTTTTG
M4	P	nucl.	ACCTTACGGTTGACATTGCCAGAGGGTTTAAGTGGAGAGCAGAAATCCCAGTGGCTTTTG

•			421 480
GenBank	P	nucl.	ACGATTAAAGCAGTCGT@CAAAGTGCCAAAMACTGGAATCTGGCAGAGTGCACATTTGAA
		nucl.	ACGATTAAAGCAGTCGTTCAAAGTGCCAAACACTGGAATCTGGCAGAGTGCACATTTGAA
		nucl.	ACCA THA ACCA CHOCHEN A CHOCA A ACCACATA TO TOGA CACATT TOGA
			ACGATTAAAGCAGTCGTTCAAAGTGCCAAACACTGGAATCTGGCAGAGTGCACATTTGAA
-		nucl.	ACGATTAAAGCAGTCGTTCAAAGTGCCAAACACTGGAATCTGGCAGAGTGCACATTTGAA
M4	₽	nucl.	ACGATTAAAGCAGTCGTTCAAAGTGCCAAACACTGGAATCTGGCAGAGTGCACATTTGAA
			401
	_	1 .	481 540
GenBank			GCATCGGGAGAAGGGGTCATMAT@AA@@AGCGCCAGATAACTCCGGATGTATATAAGGTC
	_	nucl.	GCATCGGGAGAAGGGGTCATCATAAAAAAGCGCCAGATAACTCCGGATGTATATAAGGTC
		nucl.	GCATCGGGAGAAGGGGTCATCATAAAAAAGCGCCAGATAACTCCGGATGTATATAAGGTC
М3	₽	nucl.	GCATCGGGAGAAGGGGTCATCATAAAAAAGCGCCAGATAACTCCGGATGTATATAAGGTC
M4	P	nucl.	GCATCGGGAGAAGGGGTCATCATAAAAAAGCGCCAGATAACTCCGGATGTATATAAGGTC
	_		541 600
GenBank	_		ACTCCAGTGATGAACACACATCCGTCCCAATCAGAAGCAGTTATCAGATGTTTGGTCTCTC
		nucl.	ACTCCAGTGATGAACACACATCCGTCCCAATCAGAAGCCGTATCAGATGTTTGGTCTCTC
M2	P	nucl.	ACTCCAGTGATGAACACACCGTCCCAA
м3	Р	nucl.	ACTCCAGTGATGAACACACCCGTCCCAATC@GAAGCCGTATCAGATGTTTGGTCTCTC
М4	Р	nucl.	ACTCCAGTGATGAACACACATCCGTCCCAATCAGAAGCCGTATCAGATGTTTGGTCTCTC
•			·
			601
GenBank	P	nucl.	TCAAAGACATCCATGACTTTCCAACCCAAGAAAGCAAGTCTTCAGCCTCTCACCATATCC
HR	Р	nucl.	TCAAAGACATCCATGACTTTCCAACCCAAGAAAGCAAGTCTTCAGCCTCTCACCATATCC
		nucl.	
		nucl.	TCAAAGACATCCATGACTTTCCAACCCAAGAAAGCAAGTCTTCAGCCTCTCACCATATCC
		nucl.	TCAAAGACATCCATGACTTTCCAACCCAAGAAAGCAAGTCTTCAGCCTCTCACCATATCC
	F	mucı.	TOTAL DESCRIPTION OF THE PROPERTY OF THE PROPE
			661 . 720
GenBank	р	nucl.	TTGGATGAATTGTTCTCATCTAGAGGAGA@TTCATCTCTGTCGGAGGT@ACGGACGAATG
		nucl.	TTGGATGAATTGTTCTCATCTAGAGGAGAATTCATCTCTGTCGGAGGTAACGGACGAATG
	_	nucl.	
	-	nucl.	TTGGATGAATTGTTCTCATCTAGAGGAGAATTCATCTCTGTCGGAGGTAACGGACGAATG
	_		
M4	P	nucl.	TTGGATGAATTGTTCTCATCTAGAGGAGAATTCATCTCTGTCGGAGGTAACGGACGAATG
			721 780
GenBank	D	ກນດໄ	TCTCATAAAGAGGCCATCCTGCTCGGGCTGAGATACAAAAAGTTGTACAATCAGGCGAGA
		nucl.	TCTCATAAAGAGGCCATCCTGCTCGGTCTGAGGTACAAAAAGTTGTACAATCAGGCGAGA
			TO TOATAAAAAGCCATCCTGCTCTGAGGTACAAAAGTTGTACAATCAGGCGAGA
		nucl.	
	-	nucl.	TCTCATAAAGAGGCCATCCTGCTCGGTCTGAGGTACAAAAAGTTGTACAATCAGGCGAGA
M4	P	nucl.	TCTCATAAAGAGGCCATCCTGCTCGGTCTGAGGTACAAAAAGTTGTACAATCAGGCGAGA
			781 798
ConDort	_		·
GenBank			GTCAAATATTCTCTGTAG
	-	nucl.	GTCAAATATTCTCTGTAG
	_	nucl.	^
	-	nucl.	GTCAAATATTCTCTGTAG
M4	Ρ	nucl.	GTCAAATATTCTCTGTAG

			1 60
GenBank	Ρ	a.a.	MDNLTKVREYLKSYSRLDQAVGEIDEIEAQRAEKSNYELFQEDGVEEHT@PSYFQAADDS
		a.a.	MDNLTKVREYLKSYSRLDQAVGEIDEIEAQRAEKSNYELFQEDGVEEHTRPSYFQAADDS
M2	Р	a.a.	MDNLTKVREYLKSYSRLDQAVGEIDEIEAQRAEKSNYELFQEDGVEEHTRPSYFQAADDS
	_	a.a.	MDNLTKVREYLKSYSRLDQAVGEIDEIEAQRAEKSNYELFQEDGVEEHTRPSYFQAADDS
	_	a.a.	MDNLTKVREYLKSYSRLDQAVGEIDEIEAQRAEKSNYELFQEDGVEEHTRPSYFQAADDS
	-	u.u.	TEND TO TO TO TO TO TO THE TENDER OF THE TEN
			61
GenBank		2 2	DTESEPEIEDNQGLYMODPEAEQVEGFIQGPLDDYADEBVDVVFTSDWKBPELESDEHGK
		a.a.	DIESEPETEDNIGET WIDDEN TOUTON TO THE TOUTON TO THE TOUTON TO THE TOUTON TOUTON TO THE TOUTON
	-	a.a.	DTESEPEIEDNQGLYVPDPEAEQVEGFIQGPLDDYADEDVDVVFTSDWKQPELESDEHGK
	_		DTESEPEIEDNQGLYVPDPEAEQVEGFIQGPLDDYADEDVDVVFTSDWKQPELESDEHGK
		a.a.	DTESEPEIEDNQGLYVPDPEAEQVEGFIQGPLDDYADEDVDVVFTSDWKQPELESDEHGK.
M4	Þ	a.a.	DTESEPEIEDNQGLYVPDPEAEQVEGFIQGPLDDYADEDVDVVFTSDWKQPELESDEHGK
	_		121
GenBank	-		TLRLTSPEGLSGEQKSQWLSTIKAVVQSAKWWNLAECTFEASGEGVIWKBRQITPDVYKV
	_	a.a.	TLRLTLPEGLSGEQKSQWLLTIKAVVQSAKHWNLAECTFEASGEGVIIKKRQITPDVYKV
M2	Ρ	a.a.	TLRLTLPEGLSGEQKSQWLLTIKAVVQSAKHWNLAECTFEASGEGVIIKKRQITPDVYKV
м3	Ρ	a.a.	TLRLTLPEGLSGEQKSQWLLTIKAVVQSAKHWNLAECTFEASGEGVIIKKRQITPDVYKV
M4	Ρ	a.a.	TLRLTLPEGLSGEQKSQWLLTIKAVVQSAKHWNLAECTFEASGEGVIIKKRQITPDVYKV
			181 240
GenBank	P	a.a.	TPVMNTHPSQSEAVSDVWSLSKTSMTFQPKKASLQPLTISLDELFSSRGEFISVGG同GRM
HR	Ρ	a.a.	TPVMNTHPSQSEAVSDVWSLSKTSMTFQPKKASLQPLTISLDELFSSRGEFISVGGNGRM
M2	Р	a.a.	TPVMNTHPSQ
м3	P	a.a.	TPVMNTHPSQSEAVSDVWSLSKTSMTFQPKKASLQPLTISLDELFSSRGEFISVGGNGRM
	_	a.a.	TPVMNTHPSQSEAVSDVWSLSKTSMTFQPKKASLQPLTISLDELFSSRGEFISVGGNGRM
	-		
			241 266
GenBank	P	a.a.	SHKEAILLGLRYKKLYNOARVKYSL
	-	a.a.	SHKEAILLGLRYKKLYNOARVKYSL
		a.a. a.a.	~
			CUUDA TI I OI DUUUU MIOA DUUUGI
	_	a.a.	SHKEAILLGLRYKKLYNQARVKYSL
M4	Ł	a.a.	SHKEAILLGLRYKKLYNOARVKYSL

### FIGURE 17

			1 60
GenBank			ATGAGTTCCTTAAAGAAGATTCTCGGTCTGAAGGGGAAAGGTAAGAAATCTAAGAAATTA
HR	М	nucl.	ATGAGTTCCTTAAAGAAGATTCTCGGTCTGAAGGGGAAAGGTAAGAAATCTAAGAAATTA
		nucl.	ATGAGTTCCTTAAAGAAGATTCTCGGTCTGAAGGGGAAAGGTAAGAAATCTAAGAAATTA
M4	M	nucl.	ATGAGTTCCTTAAAGAAGATTCTCGGTCTGAAGGGGAAAGGTAAGAAATCTAAGAAATTA
•		•	61 120
GenBank	M	nucl.	GGGATCGCACCACCCCTTATGAAGAGGACACTA@CATGGAGTATGCTCCGAGCGCTCCA
		nucl.	GGGATCGCACCACCCCTTATGAAGAGGACACTAACATGGAGTATGCTCCGAGCGCTCCA
_		nucl.	GGGATCGCACCACCCCTTATGAAGAGGACACTAACATGGAGTATGCTCCGAGCGCTCCA
		nucl.	GGGATCGCACCACCCCTTATGAAGAGGACACTAACATGGAGTATGCTCCGAGCGCTCCA
		•	121
GenBank	м	nucl	ATTGACAAATCCTATTTTGGAGTTGACGAGATGGACAC
		nucl.	ATTGACAAATCCTATTTTGGAGTTGACGAGATGGACACTCATGATCCGCATCAATTAAGA
		nucl.	ATTGACAAATCCTATTTTGGAGTTGACGAGA@GGACACTCATGATCCGCATCAATTAAGA
		nucl.	ATTGACAAATCCTATTTTGGAGTTGACGAGATGGACACTCATGATCCGCATCAATTAAGA
			181 240
GenBank	M	nucl	TATGAGAAATTCTTCTTTACAGTGAAAATGACGGTTAGATCTAATCGTCCGTTCAGAACA
		nucl.	TATGAGAAATTCTTCTTTACAGTGAAAATGACGGTTAGATCTAATCGTCCGTTCAGAACA
		nucl.	TATGAGAAATTCTTCTTTACAGTGAAAATGACGGTTAGATCTAATCGTCCGTTCAGAACA
		nucl.	TATGAGAAATTCTTCTTTACAGTGAAAATGACGGTTAGATCTAATCGTCCGTTCAGAACA
			241 300
GenBank	м	nuc1	TACTCAGATGTGGCAGCCGCTGTATCCCATTGGGATCACATGTACATCGGAATGGCAGGG
		nucl.	TACTCAGATGTGGCAGCCGCTGTATCCCATTGGGATCACATGTACATCGGAATGGCAGGG
		nucl.	TACTCAGATGTGGCAGCCGCTGTATCCCATTGGGATCACATGTACATCGGAATGGCAGGG
		nucl.	TACTCAGATGTGGCAGCCGCTGTATCCCATTGGGATCACATGTACATCGGAATGGCAGGG
***	**		
			301
GenBank	М	nucl.	AAACGTCCCTTCTACAAQATCTTGGCTTTTTTTGGGTTCTTCTAATCTAA
HR	М	nucl.	${\tt AAACGTCCCTTCTACAAGATCTTGGCTTTTTTGGG\underline{T}TCTTCTAATCTAAAGGCCACTCCA}$
		nucl.	AAACGTCCCTTCTACAAGATCTTGGCTTTTTTTGGGMTCTTCTAATCTAA
M4	M	nucl.	AAACGTCCCTTCTACAAGATCTTGGCTTTTTTTGGGTTCTTCTAATCTAAAGGCCACTCCA
			361 420
GenBank	М	nucl.	GCGGTATTGGCAGATCAAGGTCAACCAGAGTATCACAGCTCACTGGGAAGGCAGGGCTTAT
HR	M	nucl.	GCGGTATTGGCAGATCAAGGTCAACCAGAGTATCACGCTCACTGTGAAGGCAGGGCTTAT
м3	M	nucl.	GCGGTATTGGCAGATCAAGGTCAACCAGAGTATCACGCTCACTGTGAAGGCAGGGCTTAT
M4	M	nucl.	GCGGTATTGGCAGATCAAGGTCAACCAGAGTATCACGCTCACTGTGAAGGCAGGGCTTAT
			421 480
GenBank	М	nucl.	TTGCCACA园AGBATGGGGAAGACCCCTCCCATGCTCAATGTACCAGAGCACTTCAGAAGA
		nucl.	TTGCCACACAGAATGGGGAAGACCCCTCCCATGCTCAATGTACCAGAGCACTTCAGAAGA
		nucl.	TTGCCACACAGAATGGGGAAGACCCCTCCCATGCTCAATGTACCAGAGCACTTCAGAAGA
		nucl.	TTGCCACACAGAATGGGGAAGACCCCTCCCATGCTCAATGTACCAGAGCACTTCAGAAGA
			481 540
GenBank	м	nucl	CCATTCAATATAGGTCTTTACAAGGGAACGATTGAGCTCACAATGACCATCTACGATGAT
		nucl.	CCATTCAATATAGGTCTTTACAAGGGAACGGTTGAGCTCACAATGACCATCTACGATGAT
		nucl.	CCATTCAATATAGGTCTTTACAAGGGAACGGTTGAGCTCACAATGACCATCTACGATGAT
		nucl.	

			247 600
GenBank	М	nucl.	GAGTCACTGGAAGCAGCTCCTATGATCTGGGATCATTTCAATTCTTCCAAATTTTCTGAT
HR	M	nucl.	GAGTCACTGGAAGCAGCTCCTATGATCTGGGATCATTTCAATTCTTCCAAATTTTCTGAT
м3	М	nucl.	GAGTCACTGGAAGCAGCTCCTATGATCTGGGATCATTTCAATTCTTCCAAATTTTCTGAT
M4	M	nucl.	GAGTCACTGGAAGCAGCTCCTATGATCTGGGATCATTTCAATTCTTCCAAATTTTCTGAT
		*	601 660
GenBank	M	nucl.	TTCAGAGAGAAGGCCTTAATGTTTGGCCTGATTGTCGAGAAAAAGGCATCTGGAGC
HR	М	nucl.	TTCAGAGAGAGGCCTTAATGTTTGGCCTGATTGTCGAGAAAAAGGCATCTGGAGCTTGG
м3	М	nucl.	TTCAGAGAGAGGCCTTAATGTTTGGCCTGATTGTCGAGAAAAAGGCATCTGGAGCTTGG
M4	M	nucl.	TTCAGAGAGAGGCCTTAATGTTTGGCCTGATTGTCGAGAAAAAGGCATCTGGAGCTTGG
•	٠.		661 690
GenBank	M	nucl.	GTCCTGGATTCTATCAGCCACTTCAAATGA
		nucl.	GTCCTGGATTCTGTCAGCCACTTCAAATGA
м3	M	nucl.	GTCCTGGATTCTGTCAGCCACTTCAAATGA
		nucl.	GTCCTGGATTCTGTCAGCCACTTCAAATGA
***			

			1 60
GenBank	M	a.a.	MSSLKKILGLKGKGKKSKKLGIAPPPYEEDTSMEYAPSAPIDKSYFGVDEMDTYDPNQLR
HR	M	a.a.	MSSLKKILGLKGKGKKSKKLGIAPPPYEEDTNMEYAPSAPIDKSYFGVDEMDTHDPHQLR
M4	M	a.a.	MSSLKKILGLKGKGKKSKKLGIAPPPYEEDTNMEYAPSAPIDKSYFGVDEMDTHDPHQLR
м3	М	a.a.	MSSLKKILGLKGKGKKSKKLGIAPPPYEEDTNMEYAPSAPIDKSYFGVDE DTHDPHQLR
•			
			61 120
GenBank		a.a.	YEKFFFTVKMTVRSNRPFRTYSDVAAAVSHWDHMYIGMAGKRPFYKILAFLGSSNLKATP
		a.a.	YEKFFFTVKMTVRSNRPFRTYSDVAAAVSHWDHMYIGMAGKRPFYKILAFLGSSNLKATP
M4	M	a.a.	YEKFFFTVKMTVRSNRPFRTYSDVAAAVSHWDHMYIGMAGKRPFYKILAFLGSSNLKATP
МЗ	M	a.a.	YEKFFFTVKMTVRSNRPFRTYSDVAAAVSHWDHMYIGMAGKRPFYKILAFLGSSNLKATP
			121
GenBank	M	<b>5</b> 3	AVLADQGQPEYHTHCEGRAYLPHRMGKTPPMLNVPEHFRRPFNIGLYKGTTELTMTIYDD
		a.a. a.a.	AVLADOGOPEYHAHCEGRAYLPHRMGKTPPMLNVPEHFRRPFNIGLYKGTVELTMTIYDD
,			
		a.a.	AVLADQGQPEYHAHCEGRAYLPHRMGKTPPMLNVPEHFRRPFNIGLYKGTVELTMTIYDD
М3	M	a.a.	AVLADQGQPEYHAHCEGRAYLPHRMGKTPPMLNVPEHFRRPFNIGLYKGTVELTMTIYDD
			181 230
GenBank	М	a.a.	ESLEAAPMIWDHFNSSKFSDFREKALMFGLIVEKKASGAWVLDS <b>E</b> SHFK.
	-	a.a.	ESLEAAPMIWDHFNSSKFSDFREKALMFGLIVEKKASGAWVLDSVSHFK.
		a.a.	ESLEAAPMIWDHFNSSKFSDFREKALMFGLIVEKKASGAWVLDSVSHFK.
		a.a.	ESLEAAPMIWDHFNSSKFSDFREKALMFGLIVEKKASGAWVLDSVSHFK.

GenBank G nucl	1 ATGAAGTGCCTTTTG <u>T</u> ACTTAGC <mark>G</mark> TTTTTATTCAT <b>G</b> GGGGTGAATTGCAAGTTCACCATA
HR G nucl M2 G nucl	. ATGAAGTGCCTTTTGKACTTAGCTTTTTTATTCATCGGGGTGAATTGCAAGTTCACCATA
M3 G nucl M4 G nucl	. ATGAAGTGCCTTTTGTACTTAGCTTTTTTTATTCATCGGGGTGAATTGCAAGTTCACCATA
GenBank G nucl	
HR G nucl M2 G nucl	
M3 G nucl M4 G nucl	. GTTTTTCCATACAACC@AAAAGGAAACTGGAAAAATGTTCCTTCCAATTACCATTATTGC
	121
GenBank G nucl	. CCGTCAAGCTCAGATTTAAATTGMCATAATGACTTAATAGGCACAGCCTTACAAGTCAAA
M2 G nucl M3 G nucl M4 G nucl	CCGTCAAGCTCAGATTTAAATTGGCATAATGACTTAATAGGCACAGCCTTACAAGTCAAA
	181 240
GenBank G nucl HR G nucl	,
M2 G nucl M3 G nucl	
M4 G nucl	
	241 300
GenBank G nucl. HR G nucl.	GTCACTACTTGTGATTTCCGCTGGTACGGACCGAAGTATATAACACATTCCATCCGATCC
M2 G nucl M3 G nucl M4 G nucl	GTCACTACTTGTGATTTCCGCTGGTACGGACCGAAGTATATAACACATTCCATCCGATCC
	301 360
GenBank G nucl. HR G nucl.	
M2 G nucl. M3 G nucl.	TTCACTCCATCTGTAGAACAATGCAAGGAAAGCATTGAACAAACGAAACAAGGAACTTGG
M4 G nucl.	
GenBank G nucl.	361 420 CTGAATCCAGGCTTCCCTCCAAAGTTGTGGATATGCAACTGTGACGGATGCGGAAGCA
HR G nucl	CTGAATCCAGGCTTCCCTCCAAAGTTGTGGATATGCAACTGTGACGGATGCTGAAGCA
M2 G nucl. M3 G nucl.	
M4 G nucl	CTGAATCCAGGCTTCCCTCCAAAGTTGTGGATATGCAACTGTGACGGATGCTGAAGCA
Componie C1	421 GEGATTGTCCAGGTGACTCCTCACCATGTGCTEGGTTGATGAATACACAGGAGAATGGGTT
GenBank G nucl. HR G nucl.	GCGATTGTCCAGGTGACTCCTCACCATGTGCTTGTTGATGAATACACAGGAGAATGGGTT
M2 G nucl. M3 G nucl.	GCGATTGTCCAGGTGACTCCTCACCATGTGCTTGTTGATGAATACACAGGAGAATGGGTT
	GCGATTGTCCAGGTGACTCCTCACCATGTGCTTGTTGATGATACACAGGAGAATGGGTT

GenBank G n HR G n M2 G n M3 G n M4 G n	cl. GATTCACAGTTCATCAACGGAAAATGCAGCAATGACATATGCCCCACTGTCCATAACTCcl. GATTCACAGGTTCATCAACGGAAAATGCAGCAATGACATATGCCCCACTGTCCATAACTCcl. GATTCACAGGTTCATCAACGGAAAATGCAGCAATGACATATGCCCCACTGTCCATAACTC
GenBank G n HR G n M2 G n	cl. ACAACCTGGCATTCCGACTATAAGGTCAAAGGGCTATGTGATTCTAACCTCATTTCCAT
M3 G n M4 G n	
GenBank G n HR G n M2 G n	cl. GACATCACCTTCTCTCAGAGGACGGAGAGCTATCATCCCTAGGAAAGGAGGGCACAG
M3 G n M4 G n	cl. GACATCACCTTCTCTCAGAGGACGGAGAGCTATCATCCCTAGGAAAGGAGGGCACAG
GenBank G n HR G n M2 G n	cl. TTCAGAAGTAACTACTTTGCTTATGAAACTGGAGACAAGGCCTGCAAAATGCAGTACTC
M3 G n M4 G n	
GenBank G n HR G n M2 G n M3 G n M4 G n	cl. AAGCGTTGGGGAGTCAGACTCCCATCAGGTGTCTGGTTCGAGATGGCTGATAAGGATCT cl. AAGCATTGGGGAGTCAGACTCCCATCAGGTGTCTGGTTCGAGATGGCTGATAAGGATCT cl. AAGCATTGGGGAGTCAGACTCCCATCAGGTGTCTGGTTCGAGATGGCTGATAAGGATCT
GenBank G no HR G no M2 G no M3 G no M4 G no	cl. TTTGCTGCAGCCAGATTCCCTGAATGCCCAGAAGGGTCAAGTATCTCTGCTCCATCTCACL
GenBank G no HR G no M2 G no M3 G no M4 G no	cl. ACCTCAGTGGATGTAAGTCTCATTCAGGACGTTGAGAGGATCTTG

			901
GenBank			CAAGAAACCTGGAGCAAAATCAGAGCGGGTCTTCCAATCTCTCCAGTGGATCTCAGCTAT
		nucl.	CAAGAAACCTGGAGCAAAATCAGAGCGGGTCTTCCCATCTCTCCAGTGGATCTCAGCTAT
		nucl.	CAAGAAACCTGGAGCAAAATCAGAGCGGGTCTTCCCATCTCTCCAGTGGATCTCAGCTAT
M4	G	nucl.	
			961 1020
GenBank			CTTGCTCCTAAAAACCCAGGAACCGGTCCTGCTTTCACCATAATCAATGGTACCCTAAAA
		nucl.	CTTGCTCCTAAAAACCCAGGAACCGGTCCTGEGTTEACCATAATCAATGGTACCCTAAAA
	G	nucl.	CTTGCTCCTAAAAACCCAGGAACCGGTCCTGCTTTCACCATAATCAATGGTACCCTAAAA
M4	G	nucl.	•••••••••••••••••••••••••••••••••••••••
			1021 1080
GenBank			TACTTTGAGACCAGATACATCAGAGTCGATATTGCTGCTCCAATCCTCTCAAGAATGGTC
		nucl. nucl.	TACTTTGAGACCAGATACATCAGAGTCGATATTGCTGCTCCAATCCTCTCAAGAATGGTC
. мз	G	nucl.	TACTTTGAGACCAGATACATCAGAGTCGATATTGCTGCTCCAATCCTCTCAAGAATGGTC
M4	G	nucl.	TACTTTGAGACCAGATACATCAGAGTCGATATTGCTGCTCCAATCCTCTCAAGAATGGTC
			10811140
GenBank			GGAATGATCAGTGGAACTACCACAGAAAGGGAACTGTGGGATGACTGGGCATATGAA
		nucl. nucl.	GGAATGATCAGTGGAACTACCACAGAAAGGGAACTGTGGGATGACTGGGCTCCATATGAA
	_	nucl.	$\tt GGAATGATCAGTGGAACTACCACAGAAAGGGAACTGTGGGATGACTGGGCTCCATATGAA$
. M4	G	nucl.	GGAATGATCAGTGGAACTACCACAGAAAGGGAACTGTGGGATGACTGGGCTCCATATGAA
•	٠.		1141 1200
GenBank		nucl. nucl.	GACGTGGAAATTGGACCCAATGGAGTTCTGAGGACCAGTTCAGGATATAAGTTTCCTTTA
		nucl.	GACGTGGAAATTGGACCCAATGGAGTTCTGAGGACCAGTTCAGGATATAAGTTTCCTTTA
	_	nucl.	GACGTGGAAATTGGACCCAATGGAGTTCTGAGGACCAGTTCAGGATATAAGTTTCCTTTA
M4	G	nucl.	GACGTGGAAATTGGACCCAATGGAGTTCTGAGGACCAGTTCAGGATATAAGTTTCCTTTA
			1201 1260
GenBank		nucl. nucl.	TAGATGATTGGACATGGTATGTTGGACTCCGATCTTCATCTTAGCTCAAAGGCTCAGGTG
		nucl.	TATATGATTGGACATGGTATGTTGGACTCCGATCTTCATCTTAGCTCAAAGGCTCAGGTG
	_	nucl.	TATATGATTGGACATGGTATGTTGGACTCCGATCTTCATCTTAGCTCAAAGGCTCAGGTG
. M4	G	nucl.	TATATGATTGGACATGGTATGTTGGACTCCGATCTTCATCTTAGCTCAAAGGCTCAGGTG
	_	_	1320
GenBank		nucl. nucl.	TTGGAACATCCTCACATTCAAGACGCTGCTTCGCAACTCCTGATGATGAGAACTTTATTT
	_	nucl.	$\tt TTTGAACATCCTCACATTCAAGACGCTGCTTCGCAGCTTCCTGATGATGAGACTTTATTT$
		nucl.	TTTGAACATCCTCACATTCAAGACGCTGIITGCGCAGCTTCCTGATGATGAGACTTTATTT
M4	G	nucl. 🦠	TTTGAACATCCTCACATTCAAGACGCTGCTTCGCAGCTTCCTGATGATGAGACTTTATTT

GenBank HR M2 M3 M4	G G G	nucl. nucl. nucl. nucl. nucl.	1321 1380 TTTGGTGATACTGGGCTATCCAAAAATCCAATCGAGCTTGTAGAAGGTTGGTT
GenBank HR M2 M3 M4	G G	nucl. nucl. nucl. nucl.	1381 1440 TGGAAAAGCTCTATTGCCTCTTTTTTCTTTATCATAGGGTTAATCATTGGACTATTCTTG TGGAAGAGCTCTATTGCCTCTTTTTTCTTTATCATAGGGTTAATCATTGGACTATTCTTG TGGAAGAGCTCTATTGCCTCTTTTTTCTTTATCATAGGGTTAATCATTGGACTATTCTTG TGGAAGAGCTCTATTGCCTCTTTTTTCTTTATCATAGGGTTAATCATTGGACTATTCTTG
	G G G	nucl. nucl. nucl. nucl.	1441 1500 GTTCTCCGAGTTGGTATCCATTTGCATTAAATTAAAGCACACCAAGAAAAGACAGATT GTTCTCCGAGTTGGTATTTATCTTTGCATTAAATTAA
	G G G	nucl. nucl. nucl. nucl. nucl.	1536 TATACAGACATAGAGATGAACCGACTTGGAAGTAA TATACAGACATAGAGATGAACCGACTTGGGAAGTAA TATACAGACATAGAGATGAACCGACTTGGGAAGTAA TATACAGACATAGAGATGAACCGACTTGGGAAGTAA TATACAGACATAGAGATGAACCGACTTGGGAAGTAA

		1 60
GenBank G		MKCLLYLAFLFIGVNCKFTIVFP@NQKGNWKNVPSNYHYCPSSSDLNWHNDLIGTA@QVK
	a.a. a.a.	MKCLLMLAFLFIGVNCKFTIVFPYNQKGNWKNVPSNYHYCPSSSDLNMHNDLIGTALQVK
	a.a. a.a.	MYCLIVIA DI DICUNIO PERINDENA MENONI MANTINO DECENTA DEL CARROLLO DE CONTRA
•	a.a. a.a.	MKCLLYLAFLFIGVNCKFTIVFPYNRKGNWKNVPSNYHYCPSSSDLNWHNDLIGTALQVK
114 G	a.a.	MKCLLYLAFLFIGVNCKFTIVFPYNQKGNWKNVPSNYHYCPSSSDLNWHNDLIGTALQVK
•		61 120
GenBank G	a.a.	MPKSHKAIQADGWMCHASKWVTTCDFRWYGPKYIT@SIRSFTPSVEQCKESIEQTKQGTW
	a.a.	MPKSHKAIQADGWMCHASKWVTTCDFRWYGPKYITHSIRSFTPSVEQCKESIEQTKQGTW
. M2 G	a.a.	
	a.a.	MPKSHKAIQADGWMCHASKWVTTCDFRWYGPKYITHSIRSFTPSVEQCKESIEQTKQGTW
M4 G	a.a.	MPKSHKAIQADGWMCHASKWVTTCDFRWYGPKYITHSIRSFTPSVEQCKESIEQTKQGTW
0. 7. 1. 0		121
GenBank G		LNPGFPPQSCGYATVTDAEAWIVQVTPHHVLVDEYTGEWVDSQFINGKCSNWICPTVHNS
•	a.a. a.a.	LNPGFPPQSCGYATVTDAEAAIVQVTPHHVLVDEYTGEWVDSQFINGKCSNDICPTVHNS
	a.a. a.a.	LNPGFPPQSCGYATVTDAEAAIVQVTPHHVLVDEYTGEWVDSQFINGKCSNDICPTVHNS
	a.a.	LNPGFPPQSCGYATVTDAEAAIVQVTPHHVLVDEYTGEWVDSQFINGKCSNDICPTVHNS
,,,,,		THE TENDESTITY OF THE PROPERTY
		181 240
GenBank G	a.a.	TTWHSDYKVKGLCDSNLISMDITFFSEDGELSSLGKEGTGFRSNYFAYETG@KACKMQYC
HR G	a.a.	TTWHSDYKVKGLCDSNLISMDITFFSEDGELSSLGKEGTGFRSNYFAYETGDKACKMQYC
	a.a.	
	a.a.	TTWHSDYKVKGLCDSNLISMDITFFSEDGELSSLGKEGTGFRSNYFAYETGDKACKMQYC
M4 G	a.a.	TTWHSDYKVKGLCDSNLISMDITFFSEDGELSSLGKEGTGFRSNYFAYETGDKACKMQYC
G D 1 G		241 300
GenBank G	a.a. a.a.	KHWGVRLPSGVWFEMADKDLFAAARFPECPEGSSISAPSQTSVDVSLIQDVERILDYSLC K最WGVRLPSGVWFEMADKDLFAAARFPECPEGSSISAPSQTSVDVSLIQDVERIL
	a.a. a.a.	PSQTSVDVSLIQDVERILDYSLC
	a.a.	KHWGVRLPSGVWFEMADKDLFAAARFPECPEGSSISAPSQTSVDVSLIQDVERILDYSLC
	a.a.	KRWGVRLPSGVWF@MADKDLFAAARFPECPEGSSISAPSQTSVDVSLIQDVERI
**** 0	u.u.	Manager and Character and a post property of the property of the state
		301
GenBank G	a.a.	QETWSKIRAGLPISPVDLSYLAPKNPGTGPAFTIINGTLKYFETRYIRVDIAAPILSRMV
HR G	a.a.	
M2 G	a.a.	QETWSKIRAGLPISPVDLSYLAPKNPGTGPWFTIINGTLKYFETRYIRVDIAAPILSRMV
M3 G	a.a.	QETWSKIRAGLPISPVDLSYLAPKNPGTGPAFTIINGTLKYFETRYIRVDIAAPILSRMV
M4 G	a.a.	YFETRYIRVDIAAPILSRMV
		361 420
GenBank G		GMISGTTTERELWDDWAPYEDVEIGPNGVLRTSSGYKFPLYMIGHGMLDSDLHLSSKAQV
	a.a.	CMTCCMMMED EL IMDINA DVEDUETADMONT DAGGOVERDI MATOVONT DCD. 117 CCC.
	a.a.	GMISGTTTERELWDDWAPYEDVEIGPNGVLRTSSGYKFPLYMIGHGMLDSDLHLSSKAQV
	a.a. a.a.	GMISGTTTERELWDDWAPYEDVEIGPNGVLRTSSGYKFPLYMIGHGMLDSDLHLSSKAQV GMISGTTTERELWDDWAPYEDVEIGPNGVLRTSSGYKFPLYMIGHGMLDSDLHLSSKAOV
114 G	a.a.	- GMITOGIIITEKEDMDDMWEIEDAEIRENGADKI22061KLEPIMIGURDD2DPUP22KWOA

M2 M3	G G G	a.a. a.a. a.a. a.a.	421 FEHPHIQDAASQLPDDESLFFGDTGLSKNPIESVEGWFSSWKSSIASFFFIIGLIIGLF FEHPHIQDAASQLPDDETLFFGDTGLSKNPIEFVEGWFSSWKSSIASFFFIIGLIIGLF FEHPHIQDAXQLPDDETLFFGDTGLSKNPIEFVEGWFSSWKSSIASFFFIIGLIIGLF FEHPHIQDAASQLPDDETLFFGDTGLSKNPIEFVEGWFSSWKSSIASFFFIIGLIIGLF	L L L
M2 M3	G G G	a.a. a.a. a.a. a.a.	481 512 VLRVGIELCIKLKHTKKRQIYTDIEMNRLGK  VLRVGIYLCIKLKHTKKRQIYTDIEMNRLGK VLRVGIYLCIKLKHTKKRQIYTDIEMNRLGK VLRVGIYLCIKLKHTKKRQIYTDIEMNRLGK	

### FIGURE 21-2

	1 60
GenBank L nucl.	ATGGAAGTCCACGATTTTGAGACCGACGAGTTCAATGATTTCAATGAAGATGACTATGCC
HR L nucl. M2 L nucl. M4 L nucl.	ATGGAAGTCCACGATTTTGAGACCGACGAGTTCAATGATTTCAATGAAGATGACTATGCC ATGGAAGTCCACGATTTTGAGACCGACGAGTTCAATGATTTCAATGAAGATGACTATGCC
GenBank L nucl.	61 ACAAGAGAATTCCTGAATCCCGATGAGCGCATGACGTACTTGAATCATGCTGATTACAAT
MR L nucl. M2 L nucl. M4 L nucl.	ACAAGAGAATTCCTGAATCCCGATGAGCGCATGACGTACTTGAATCATGCTGATTACAAT ACAAGAGAATTCCTGAATCCCGATGAGCGCATGACGTACTTGAATCATGCTGATTACAAT
GenBank L nucl.	121 TTGAATTCTCCTCTAATTAGTGATGATATTGACAATTTGATCAGGAAATTCAATTCTCTT
HR L nucl. M2 L nucl. M4 L nucl.	TTGAATTCTCCTCTAATTAGTGATGATATTGACAATTTGATCAGGAAATTCAATTCTCTT TTGAATTCTCCTCTAATTAGTGATGATATTGACAATTTGATCAGGAAATTCAATTCTCTT
GenBank L nucl.	181 CCGATTCCCTCGATGTGGGATAGTAAGAACTGGGATGGAGTTCTTGAGATGTTAACATCA
HR L nucl. M2 L nucl. M4 L nucl.	CCGATTCCCTCGATGTGGGATAGTAAGAACTGGGATGGAGTTCTTGAGATGTTAACATCA CCGATTCCCTCGATGTGGGATAGTAAGAACTGGGATGGAGTTCTTGAGATGTTAACATCA
GenBank L nucl.	241 300 TGTCAAGCCAATCCCATCTCAACATCTCAGATGCATAAATGGATGG
HR L nucl. M2 L nucl. M4 L nucl.	TGTCAAGCCAATCCCATCTCAACATCTCAGATGCATAAATGGATGG
GenBank L nucl.	301 TCTGATAATCATGATGCCAGTCAAGGGTATAGTTTTTTACATGAAGTGGACAAAGAGGCA
HR L nucl. M2 L nucl. M4 L nucl.	TCTGATAATCATGATGCCAGTCAAGGGTATAGTTTTTTACATGAAGTGTCTGATAATCATGATGCCAGTCAAGGGTATAGTTTTTTACATGAAGTGGACAAAGAGGCA
GenBank L nucl. HR L nucl. M2 L nucl. M4 L nucl.	361 420 GAAATAACATTTGACGTGGTGGAGACCTTCATCCGCGGCTGGGGCAACAAACCAATTGAA
GenBank L nucl.	421 480 TACATCAAAAAGGAAAGATGGACTGACTCATTCAAAATTCTCGCTTATTTGTGTCAAAAG
M2 L nucl. M4 L nucl.	TACATCAAAAAGGAAAGATGGACTGACTCATTCAAAATTCTCGCTTATTTGTGTCAAAAAG
GenBank L nucl. HR L nucl. M2 L nucl.	481 540 TTTTTGGACTTACACAAGTTGACATTAATCTTAAATGCTGTCTCTGAGGTGGAATTGCTC
M4 L nucl.	TTTTTGGACTTACACAAGTTGACATTAATCTTAAATGCTGTCTCTGAGGTGGAATTGCTC

	541 600
GenBank L nucl. HR L nucl.	AACTTGGCGAGGACTTTCAAAGGCAAAGTCAGAAGAAGTTCTCATGGAACGAAC
M2 L nucl.	
M4 L nucl.	AACTTGGCGAGGACTTTCAAAGGCAAAGTCAGAAGATCTCTCATGGAACGAAC
	601
GenBank L nucl. HR L nucl.	AGGNTTAGGGTTCCCAGCTTGGGTCCTACTTTTATTTCAGAAGGATGGGCTTACTTCAAG
M2 L nucl.	
M4 L nucl.	AGGGTTAGGGTTCCCAGCTTGGGTCCTACTTTTATTTCAGAAGGATGGGCTTACTTCAAG
	661 720
GenBank L nucl.	AAACTTGATATTCTAATGGACCGAAACTTTCTGTTAATGGTCAAAGATGTGATTATAGGG
HR L nucl. M2 L nucl.	
M4 L nucl.	AAACTTGATATTCTAATGGACCGAAACTTTCTGTTAATGGTCAAAGATGTGATTATAGGG
	721 780
GenBank L nucl.	AGGATGCAAACGGTGCTATCCATGGTATGTAGAATAGACAACCTGTTCTCAGAGCAAGAC
HR L nucl.	
M2 L nucl. M4 L nucl.	AGGATGCAAACGGTGCTATCCATGGTATGTAGAATAGACAACCTGTTCTCAGAGCAAGAC
	781 840
GenBank L nucl.	ATCTTCTCCCTTCTAAATATCTACAGAATTGGAGATAAAATTGTGGAGAGGCAGGGAAAT
HR L nucl.	,
M2 L nucl. M4 L nucl.	ATCTTCTCCCTTCTAAATATCTACAGAATTGGAGATAAAATTGTGGAGAGGCAGGGAAAT
•	841 900
GenBank L nucl.	TTTTCTTATGACTTGATTAAAATGGTGGAACCGATATGCAACTTGAAACTGATGAAATTA
HR L nucl.	
M2 L nucl.	
M4 L nucl.	TTTTCTTATGACTTGATTAAAATGGTGGAACCGATATGCAACTTGA@GCTGATGAAATTA
	901 960
GenBank L nucl.	GCAAGAGAATCAAGGCCTTTAGTCCCACAATTCCCTCATTTTGAAAATCATATCAAGACT
HR L nucl.	
M2 L nucl. M4 L nucl.	GCAAGAGAATCAAGGCCTTTAGTCCCACAATTCCCTCATTTTGAAAATCATATCAAGACT
M4 L NUCL.	GCAAGAGAATCAAGGCCTTAGTCCCACAATTCCCTCATTTTGAAAATCATATCAAGACT
	961 1020
GenBank L nucl.	TCTGTTGATGAAGGGGCAAAAATTGACCGAGGTATAAGATTCCTCCATGATCAGATAATG
HR L nucl. M2 L nucl.	
M4 L nucl.	TCTGTTGATGAAGGGGCAAAAATTGACCGAGGTATAAGATTCCTCCATGATCAGATAATG

	1021
GenBank L nucl.	AGTGTGAAAACAGTGGATCTCACACTGGTGATTTATGGATCGTTCAGACATTGGGGTCAT
HR L nucl. M2 L nucl.	······CATTGGGGTCAT
M4 L nucl.	AGTGTGAAAACAGTGGATCTCACACTGGTGATTTATGGATCGTTCAGACATTGGGGTCAT
	1081
GenBank L nucl. HR L nucl. M2 L nucl.	CCTTTTATAGATTATTACACTGGACTAGAAAAATTACATTCCCAAGTAACCATGAAGAAA CCTTTTATAGATTATTACGCTGGACTAGAAAAATTACATTCCCAAGTAACCATAAAAAAAA
M4 L nucl.	CCTTTTATAGATTATTACGCTGGACTAGAAAAATTACATTCCCAAGTAACCATGAAGAAA
	1141 1200
GenBank L nucl. HR L nucl.	GATATTGATGTGTCATATGCAAAAGCACTTGCAAGTGATTTAGCTCGGATTGTTCTATTT GATATTGATGTGTCATATGCAAAGCACTTGCAAGTGATTTAGCTCGGATTGTTCTATTT
M2 L nucl. M4 L nucl.	GATATTGATGTCATATGCAAAAGCACTTGCAAGTGATTTAGCTCGGATTGTTCTATTT
•	1201
GenBank L nucl. HR L nucl.	CAACAGTTCAATGATCATAAAAAGTGGTTCGTGAATGGAGACTTGCTCCCTCATGATCAT CAACAGTTCAATGATCATAAAAAGTGGTTCGTGAATGGAGACTTGCTCCCTCATGATCAT
M2 L nucl. M4 L nucl.	CAACAGTTCAATGATCATAAAAAGTGGTTCGTGAATGGAGACTTGCTCCCTCATGATCAT
	1261
GenBank L nucl. HR L nucl.	CCCTTTAAAAGTCATGTTAAAGAAAATACATGGCCCACAGCTGCTCAAGTTCAAGATTTT CCCTTTAAAAGTCATGTTAAAGAAAATACATGGCCCACAGCTGCTCAAGTTCAAGATTTT
M2 L nucl. M4 L nucl.	CCCTTTAAAAGTCATGTTAAAGAAAATACATGGCCCACAGCTGCTCAAGTTCAAGATTTT
	1321
GenBank L nucl. HR L nucl.	GGAGATAAATGCCATGAACTTCCGCTGATTAAATGTTTTGAAATACCCGACTTACTAGAC GGAGATAAATGGCATGAACTTCCGCTGATTAAATGTTTTTGAAATACCCGACTTACTAGAC
M2 L nucl. M4 L nucl.	GGAGATAAATGCCATGAACTTCCGCTGATTAAATGTTTTGAAATACCCGACTTACTAGAC
	1381
GenBank L nucl. HR L nucl.	CCATCGATAATATACTCTGACAAAAGTCATTCAATGAATAGGTCAGAGGTGTTGAAACAT CCATCGATAATATACTCTGACAAAAGTCATTCAATGAATAGGTCAGAGGTGTTGAAACAT
M2 L nucl. M4 L nucl.	CCATCGATAATATACTCTGACAAAAGTCATTCAATGAATAGGTCAGAGGTGTTGAAACAT
	1441 1500
GenBank L nucl. HR L nucl.	GTCCGAATGAATCCGAACACTCCTATCCCTAGTAAAAAGGTGTTGCAGACTATGTTGGACGTCCGAATGAAT
M2 L nucl. M4 L nucl.	GTCCGAATGAATCCGAACACTCCTATCCCTAGTAAAAAGGTGTTGCAGACTATGTTGGAC

GenBank L nucl. HR L nucl. M2 L nucl. M4 L nucl.	1501 ACAAAGGCTACCAATTGGAAAGAATTTCTTAAAGAGATTGATGAGAAGGGCTTAGATGAT ACAAAGGCTACCAATTGGAAAGAATTTCTTAAAGAGATTGATGAGAAGGGCTTAGATGAT
	ACAAAGGCTACCAATTGGAAAGAATTTCTTAAAGAGATTGATGAGAAGGGCTTAGATGAT
GenBank L nucl.	1561 GATGATCTAATTATTGGTCTTAAAGGAAAGGAGGGAACTGAAGTTGGCAGGTAGATTT GATGATCTAATTATTGGTCTTAAAGGAAAGG
M2 L nucl. M4 L nucl.	GATGATCTAATTATTGGTCTTAAAGGAAAGGAGGGAACTGAAGTTGGCAGGTAGATTT
GenBank L nucl.	1621 TTCTCCCTAATGTCTTGGAAATTGCGAGAATACTTTGTAATTACCGAATATTTGATAAAG TTCTCCCTAATGTCTTGGAAATTGCGAGAATACTTTGTAATTACCGAATATTTGATAAAG
M2 L nucl M4 L nucl.	TTCTCCCTAATGTCTTGGAAATTGCGAGAATACTTTGTAATTACCGAATATTTGATAAAG
GenBank L nucl. HR L nucl.	1681 1740 ACTCATTTCGTCCCTATGTTTAAAGGCCTGACAATGGCGGACGATCTAACTGCAGTCATT ACTCATTTCGTCCCTATGTTTAAAGGCCTGACAATGGCGGACGATCTAACTGCAGTCATT
M2 L nucl. M4 L nucl.	ACTCATTTCGTCCCTATGTTTAAAGGCCTGACAATGGCGGACGATCTAACTGCAGTCATT
GenBank L nucl. HR L nucl. M2 L nucl. M4 L nucl.	1741 1800 AAAAAGATGTTAGATTCCTCATCCGGCCAAGGATTGAAGTCATATGAGGCAATTTGCATA AAAAAGATGTTAGATTCCTCATCCGGCCAAGGATTGAAGTCATATGAGGCAATTTGCATA
GenBank L nucl. HR L nucl. M2 L nucl.	1801 1860 GCCAATCACATTGATTACGAAAAATGGAATAACCACCAAAGGAAGTTATCAAACGGCCCA GCCAATCACATTGATTACGAAAAATGGAATAACCACCAAAGGAAGTTATCAAACGGCCCA
M4 L nucl.  GenBank L nucl.  HR L nucl.	GCCAATCACATTGATTACGAAAAATGGAATAACCACCAAAGGAAGTTATCAAACGGCCCA  1861 1920 GTGTTCCGAGTTATGGGCCAGTTCTTAGGTTATCCATCCTTAATCGAGAGAACTCATGAA GTGTTCCGAGTTATGGGCCAGTTCTTAGGTTATCCATCCTTAATCGAGAGAACTCATGAA
M2 L nucl. M4 L nucl.	GTGTTCCGAGTTATGGGCCAGTTCTTAGGTTATCCATCCTTAATCGAGAGAACTCATGAA
GenBank L nucl. HR L nucl. M2 L nucl. M4 L nucl.	1921 1980 TTTTTTGAGAAAAGTCTTATATACTACAATGGAAGACCAGACTTGATGCGTGTTCACAAC TTTTTTGAGAAAAGTCTTATATACTACAATGGAAGACCAGACTTGATGCGTGTTCACAAC
GenBank L nucl. HR L nucl.	1981 2040 AACACACTGATCAATTCAACCTCCCAACGAGTTTGTTGGCAAGGACAAGAGGGTGGACTG AACACACTGATCAATTCAACCTCCCAACGAGTTTGTTGGCAAGGACAAGAGGGTGGACTG
M2 L nucl. M4 L nucl.	AACACACTGATCAATTCAACCTCCCAACGAGTTTGTTGGCAAGGACAAGAGGGTGGACTG

GenBank L nucl. HR L nucl. M2 L nucl. M4 L nucl.	2100 GAAGGTCTACGGCAAAAAGGATGGAGTATCCTCAATCTACTGGTTATTCAAAGAGAGGCT GAAGGTCTACGGCAAAAAGGATGGAGTATCCTCAATCTACTGGTTATTCAAAGAGAGGCT
GenBank L nucl. HR L nucl.	2101 AAAATCAGAAACACTGCTGTCAAAGTCTTGGCACAAGGTGATAATCAAGTTATTTGCACA AAAATCAGAAACACTGCTGTCAAAGTCTTGGCACAAGGTGATAATCAAGTTATTTGCACA
M2 L nucl. M4 L nucl.	AAAATCAGAAACACTGCTGTCAAAGTCTTGGCACAAGGTGATAATCAAGTTATTTGCACA
GenBank L nucl. HR L nucl.	2161 CAGTATAAAACGAAGAAATCGAGAAACGTTGTAGAATTACAGGGTGCTCTCAATCAA
M2 L nucl. M4 L nucl.	CAGTATAAAACGAAGAAATCGAGAAACGTTGTAGAATTACAGGGTGCTCTCAATCAA
GenBank L nucl.	2221 GTTTCTAATAATGAGAAAATTATGACTGCAATCAAAATAGGGACAGGGAAGTTAGGACTT GTTTCTAATAATGAGAAAATTATGACTGCAATCAAAATAGGGACAGGGAAGTTAGGACTT
M2 L nucl. M4 L nucl.	GTTTCTAATAATGAGAAAATTATGACTGCAATCAAAATAGGGACAGGGAAGTTAGGACTT
GenBank L nucl. HR L nucl. M2 L nucl. M4 L nucl.	2340 TTGATAAATGACGATGAGACTATGCAATCTGCAGATTACTTGAATTATGGAAAAATACCG TTGATAAATGACGATGAGACTATGCAATCTGCAGATTACTTGAATTATGGAAAAATACCG TTGATAAATGACGATGAGACTATGCAATCTGCAGATTACTTGAATTATGGAAAAATACCA
GenBank L nucl. HR L nucl. M2 L nucl. M4 L nucl.	2341 2400 ATTTTCCGTGGAGTGATTAGAGGGTTAGAGACCAAGAGATGGTCACGAGTGACTTGTGTC ATTTTCCGTGGAGTGATTAGAGGGTTAGAGACCAAGAGATGGTCACGAGTGACTTGTGTC ATTTTCCGTGGAGTGATTAGAGGGTTAGAGACCAAGAGATGGTCACGAGTGACTTGTGTC
GenBank L nucl. HR L nucl.	2401 2460 ACCAATGACCAAATACCCACTTGTGCTAATATAATGAGCTCAGTTTCCACAAATGCTCTC ACCAATGACCAAATACCCACTTGTGCTAATATAATGAGCTCAGTTTCCACAAATGCTCTC
M2 L nucl. M4 L nucl.	ACCAATGACCAAATACCCACTTGTGCTAATATAATGAGCTCAGTTTCCACAAATGCTCTC
GenBank L nucl. HR L nucl. M2 L nucl.	2461 2520 ACCGTAGCTCATTTTGCTGAGAACCCAATCAATGCCATGATACAGTACAATTATTTTGGG ACCGTAGCTCATTTTGCTGAGAACCCAATCAATGCCATGATACAGTACAATTATTTTTGGG
M4 L nucl.	ACCGTAGCTCATTTTGCTGAGAACCCAATCAATGCCATGATACAGTACAATTATTTTGGG  2521 2580 ACATTTGCTAGACTCTTGTTGATGATGATGCATGCTCTCTTCGTCAATCATTGTATGAA
HR L nucl. M2 L nucl. M4 L nucl.	ACATTTGCTAGACTCTTGTTGATGATGCATGATCCTGCTCTTCGTCAATCATTGTATGAA ACATTTGCTAGACTCTTGTTGATGATGCATGATCCTGCTCTTCGTCAATCATTGTATGAA 

GenBank L nucl. HR L nucl.	2581 GTTCAAGATAAGATACCGGGCTTGCACAGTTCTACTTTCAAATACGCCATGTTGTATTTCGGTCAAGATAAGATACGCCATGTTGTATTTCGTTCAAATACGCCATGTTGTATTTCGTTCAAATACGCCATGTTGTATTTCGTTCAAATACGCCATGTTGTATTTCGTACTCTACTTCAAATACGCCATGTTGTATTTCGTACTCTACTTCAAATACGCCATGTTGTATTTCGTATTTCGTATTTCGTATTTCGTACTCTACTTCAAATACGCCATGTTGTATTTCGTATTTCGTATTTCGTATTTCGTATTCTAAATACGCCATGTTGTATTTCGTATTCGTATTCGTATTCGTATTCGTATTCGTATTCGTATTTTCGTATTTCGTATTTCGTATTTCGTATTTCGTATTTTCGTATTTTCGTATTTTTTTT
M2 L nucl. M4 L nucl.	GTTCAAGATAAGATACCGGGCTTGCACAGTTCTACTTTCAAATACGCCATGTTGTATTTG
GenBank L nucl. HR L nucl.	2641 GACCCTTCCATTGGAGGAGTGTCGGGCATGTCTTTGTCCAGGTTTTTGATTAGAGCCTTC GACCCTTCCATTGGAGGAGTGTCGGGCATGTCTTTGTCCAGGTTTTTGATTAGAGCCTTC
M2 L nucl. M4 L nucl.	GACCCTTCCATTGGAGGAGTGTCGGGCATGTCTTTGTCCAGGTTTTTGATTAGAGCCTTC
GenBank L nucl.	2761 CCAGATCCCGTAACAGAAAGTCTCTCATTCTGGAGATTCATCCATGTACATGCTCGAAGT CCAGATCCCGTAACAGAAAGTCTCTCATTCTGGAGATTCATCCATGTACATGCTCGAAGT
M2 L nucl. M4 L nucl.	CCAGATCCCGTAACAGAAAGTCTCTCATTCTGGAGATTCATCCATGTACATGCTCGAAGT
GenBank L nucl. HR L nucl.	2761 GAGCATCTGAAGGAGATGAGTGCAGTATTTGGAAACCCCGAGATAGCCAAGTTTCGAATA GAGCATCTGAAGGAGATGAGTGCAGTATTTGGAAACCCCGAGATAGCCAAGTTTCGAATA
M2 L nucl. M4 L nucl.	GAGCATCTGAAGGAGATGAGTGCAGTATTTGGAAACCCCGAGATAGCCAAGTTTCGAATA
GenBank L nucl. HR L nucl. M2 L nucl.	2821 ACTCACATAGACAAGCTAGTAGAAGATCCAACCTCTCTGAACATCGCTATGGGAATGAGT ACTCACATAGACAAGCTAGTAGAAGATCCAACCTCTCTGAACATCGCTATGGGAATGAGT
M4 L nucl.	ACTCACATAGACAAGCTAGTAGAAGATCCAACCTCTCTGAACATCGCTATGGGAATGAGT
GenBank L nucl. HR L nucl.	2940 CCAGCGAACTTGTTAAAGACTGAGGTTAAAAAATGCTTAATCGAATCAAGACAAACCATC CCAGCGAACTTGTTAAAGACTGAGGTTAAAAAATGCTTAATCGAATCAAGACAAACCATC
M2 L nucl. M4 L nucl.	CCAGCGAACTTGTTAAAGACTGAGGTTAAAAAATGCTTAATCGAATCAAGACAAACCATC
GenBank L nucl. HR L nucl. M2 L nucl. M4 L nucl.	2941 AGGAACCAGGTGATTAAGGATGCAACCATATATTTGTATCATGAAGAGGATCGGCTCAGA AGGAACCAGGTGATTAAGGATGCAACCATATATTTGTATCATGAAGAGGATCGGCTCAGA
	AGGAACCAGGTGATTAAGGATGCAACCATATATTTGTATCATGAAGAGGATCGGCTCAGA
GenBank L nucl. HR L nucl. M2 L nucl. M4 L nucl.	3001 AGTTTCTTATGGTCAATAAATCCTCTGTTCCCTAGATTTTTAAGTGAATTCAAATCAGGC AGTTTCTTATGGTCAATAAATCCTCTGTTCCCTAGATTTTTAAGTGAATTCAAATCAGGC
	AGTTTCTTATGGTCAATAAATCCTCTGTTCCCTAGATTTTTAAGTGAATTCAAATCAGGC
GenBank L nucl.	3061 ACTTTTTTGGGAGTCGCAGACGGGCTCATCAGTCTATTTCAAAATTCTCGTACTATTCGG ACTTTTTTGGGAGTCGCAGACGGGCTCATCAGTCTATTTCAAAATTCTCGTACTATTCGG
M2 L nucl. M4 L nucl.	ACTTTTTTGGGAGTCGCAGACGGGCTCATCAGTCTATTCAAAATTCTCGTACTATTCGG

GenBank L nucl. HR L nucl.	3121 AACTCCTTTAAGAAAAAGTATCATAGGGAATTGGATGATTTGATTGTGAGGAGTGAGGTA AACTCCTTTAAGAAAAAGTATCATAGGGAATTGGATGATTTGATTGTGAGGAGTGAGGTA
M2 L nucl. M4 L nucl.	AACTCCTTTAAGAAAAGTATCATAGGGAATTGGATGATTTGATTGTGAGGAGTGAGGTA
GenBank L nucl. HR L nucl.	3181 TCCTCTTTGACACATTTAGGGAAACTTCATTTGAGAAGGGGATCATGTAAAATGTGGACA TCCTCTTTGACACATTTAGGGAAACTTCATTTGAGAAGGGGATCATGTAAAATGTGGACA
M2 L nucl. M4 L nucl.	TCCTCTTTGACACATTTAGGGAAACTTCATTTGAGAAGGGGATCATGTAAAATGTGGACA
GenBank L nucl. HR L nucl.	3241 TGTTCAGCTACTCATGCTGACACATTAAGATACAAATCCTGGGGCCGTACAGTTATTGGG TGTTCAGCTACTCATGCTGACACATTAAGATACAAATCCTGGGGCCGTACAGTTATTGGG
M2 L nucl. M4 L nucl.	TGTTCAGCTACTCATGCTGACACATTAAGATACAAATCCTGGGGCCGTACAGTTATTGGG
GenBank L nucl. HR L nucl.	3301 ACAACTGTACCCCATCCATTAGAAATGTTGGGTCCACAACATCGAAAAGAGACTCCTTGT ACAACTGTACCCCATCCATTAGAAATGTTGGGTCCACAACATCGAAAAGAGACTCCTTGT
M2 L nucl. M4 L nucl.	ACAACTGTACCCCATCCATTAGAAATGTTGGGTCCACAACATCGAAAAGAGACTCCTTGT
GenBank L nucl. HR L nucl. M2 L nucl.	3361 3420 GCACCATGTAACACATCAGGGTTCAATTATGTTTCTGTGCATTGTCCAGACGGGATCCAT GCACCATGTAACACATCAGGGTTCAATTATGTTTCTGTGCATTGTCCAGACGGGATCCAT
M4 L nucl.	GCACCATGTAACACATCAGGGTTCAATTATGTTTCTGTGCATTGTCCAGACGGGATCCAT
GenBank L nucl. HR L nucl.	3421 3480 GACGTCTTTAGTTCACGGGGACCATTGCCTGCTTATCTAGGGTCTAAAACATCTGAATCT GACGTCTTTAGTTCACGGGGACCATTGCCTGCTTATCTAGGGTCTAAAACATCTGAATCT
M2 L nucl. M4 L nucl.	GACGTCTTTAGTTCACGGGGACCATTGCCTGCTTATCTAGGGTCTAAAAACATCTGAATCT
GenBank L nucl. HR L nucl. M2 L nucl.	3481 3540 ACATCTATTTTGCAGCCTTGGGAAAGGGAAAGCAAAGTCCCACTGATTAAAAGAGCTACA ACATCTATTTTGCAGCCTTGGGAAAGGGAAAGCAAAGTCCCACTGATTAAAAGAGCTACA
M4 L nucl.	ACATCTATTTTGCAGCCTTGGGAAAGGGAAAGCCAAAGTCCCACTGATTAAAAGAGCTACA
GenBank L nucl.	3541 CGTCTTAGAGATGCTATCTCTTGGTTTGTTGAACCCGACTCTAAACTAGCAATGACTATA CGTCTTAGAGATGCTATCTCTTGGTTTGTTGAACCCGACTCTAAACTAGCAATGACTATA
M2 L nucl. M4 L nucl.	CGTCTTAGAGATGCTATCTCTTGGTTTGTTGAACCCGACTCTAAACTAGCAATGACTATA
GenBank L nucl.	CTTTCTAACATCCACTCTTTAACAGGCGAAGAATGGACCAAAAGGCAGCATGGGTTCAAA
M2 L nucl. M4 L nucl.	CTTTCTAACATCCACTCTTTAACAGGCGAAGAATGGACCAAAAGGCAGCATGGGTTCAAA

GenBank L nucl. HR L nucl. M2 L nucl.	3720 AGAACAGGGTCTGCCCTTCATAGGTTTTCGACATCTCGGATGAGCCATGGTGGGTTCGCA AGAACAGGGTCTGCCCTTCATAGGTTTTCGACATCTCGGATGAGCCATGGTGGGTTCGCA
M4 L nucl.	AGAACAGGGTCTGCCCTTCATAGGTTTTCGACATCTCGGATGAGCCATGGTGGGTTCGCA
GenBank L nucl.	3781 TCTCAGAGCACTGCAGCATTGACCAGGTTGATGGCAACTACAGACACCATGAGGGATCTG TCTCAGAGCACTGCAGCATTGACCAGGTTGATGGCAACTACAGACACCATGAGGGATCTG
M2 L nucl. M4 L nucl.	TCTCAGAGCACTGCAGCATTGACCAGGTTGATGGCAACTACAGACACCATGAGGGATCTG
GenBank L nucl. HR L nucl.	3840 GGAGATCAGAATTTCGACTTTTTATTCCANGCAACGTTGCTCTATGCTCANATTACCACC GGAGATCAGAATTTCGACTTTTTATTCCAGGCAACGTTGCTCTATGCTCAGATTACCACC
M2 L nucl. M4 L nucl.	GGAGATCAGAATTTCGACTTTTTATTCCANGCAACGTTGCTCTATGCTCANATTACCACC
GenBank L nucl. HR L nucl.	3900 ACTGTTGCAAGAGACGGATGGATCACCAGTTGTACAGATCATTATCATATTGCCTGTAAG ACTGTTGCAAGAGACGGATGGATCACCAGTTGTACAGATCATTATCATATTGCCTGTAAG
M2 L nucl. M4 L nucl.	ACTGTTGCAAGAGACGGATGGATCACCAGTTGTACAGATCATTATCATATTGCCTGTAAG
GenBank L nucl. HR L nucl. M2 L nucl.	3901 3960 TCCTGTTTGAGACCCATAGAAGAGATCACCCTGGACTCAAGTATGGACTACACGCCCCCA TCCTGTTTGAGACCCATAGAAGAGATCACCCTGGACTCAAGTATGGACTACACGCCCCCA
M4 L nucl.	TCCTGTTTGAGACCCATAGAAGAGATCACCCTGGACTCAAGTATGGACTACACGCCCCCA
GenBank L nucl. HR L nucl.	3961 4020 GATGTATCCCATGTGCTGAAGACATGGAGGAATGGGGAAGGTTCGTGGGGACAAGAGATA GATGTATCCCATGTGCTGAAGACATGGAGGAATGGGGAAGGTTCGTGGGGACAAGAGATA
M2 L nucl. M4 L nucl.	GATGTATCCCATGTGCTGAAGACATGGAGGAATGGGGAAGGTTCGTGGGGACAAGAGATA
GenBank L nucl. HR L nucl. M2 L nucl. M4 L nucl.	4021 AAACAGATCTATCCTTTAGAAGGGAATTGGAAGAATTTAGCACCTGCTGAGCAATCCTAT AAACAGATCTATCCTTTAGAAGGGAATTGGAAGAATTTAGCACCTGCTGAGCAATCCTAT
	AAACAGATCTATCCTTTAGAAGGGAATTGGAAGAATTTAGCACCTGCTGAGCAATCCTAT
GenBank L nucl. HR L nucl. M2 L nucl. M4 L nucl.	4081 4140 CAAGTCGGCAGATGTATAGGTTTTCTATATGGAGACTTGGCGTATAGAAAATCTACTCAT CAAGTCGGCAGATGTATAGGTTTTCTATATGGAGACTTGGCGTATAGAAAATCTACTCAT
	CAAGTCGGCAGATGTATAGGTTTTCTATATGGAGACTTGGCGTATAGAAAATCTACTCAT
GenBank L nucl. HR L nucl.	4141 4200 GCCGAGGACAGTTCTCTATTTCCTCTATCTATACAAGGTCGTATTAGAGGTCGAGGTTTC GCCGAGGACAGTTCTCTATTTCCTCTATCTATACAAGGTCGTATTAGAGGTCGAGGTTTC
M2 L nucl. M4 L nucl.	GCCGAGGACAGTTCTCTATTTCCTCTATCTATACAAGGTCGTATTAGAGGTCGAGGTTTC

GenBank L nucl. HR L nucl. M2 L nucl.	4201 4260 TTAAAAGGGTTGCTAGACGGATTAATGAGAGCAAGTTGCTGCCAAGTAATACACCGGAGA TTAAAAGGGTTGCTAGACGGATTAATGAGAGCAAGTTGCTGCCAAGTAATACACCGGAGA
M4 L nucl.	TTAAAAGGGTTGCTAGACGGATTAATGAGAGCAAGTTGCTGCCAAGTAATACACCGGAGA
GenBank L nucl. HR L nucl.	4320 AGTCTGGCTCATTTGAAGAGGCCGGCCAACGCAGTGTACGGAGGTTTGATTTACTTGATT AGTCTGGCTCATTTGAAGAGGCCGGCCAACGCAGTGTACGGAGGTTTGATTTACTTGATT
M2 L nucl. M4 L nucl.	AGTCTGGCTCATTTGAAGAGGCCGGCCAACGCAGTGTACGGAGGTTTGATTTACTTGATT
GenBank L nucl.	4321 GATAAATTGAGTGTATCACCTCCATTCCTTTCTCTTACTAGATCAGGACCTATTAGAGAC GATAAATTGAGTGTATCACCTCCATTCCTTTCTCTTACTAGATCAGGACCTATTAGAGAC
M2 L nucl. M4 L nucl.	GATAAATTGAGTGTATCACCTCCATTCCTTTCTCTTACTAGATCAGGACCTATTAGAGAC
GenBank L nucl.	4381 GAATTAGAAACGATTCCCCACAAGATCCCAACCTCCTATCCGACAAGCAACCGTGATATG GAATTAGAAACGATTCCCCACAAGATCCCAACCTCCTATCCGACAAGCAACCGTGATATG
M2 L nucl. M4 L nucl.	GAATTAGAAACGATTCCCCACAAGATCCCAACCTCCTATCCGACAAGCAACCGTGATATG
GenBank L nucl.	4441 4500 GGGGTGATTGTCAGAAATTACTTCAAATACCAATGCCGTCTAATTGAAAAGGGAAAATAC GGGGTGATTGTCAGAAATTACTTCAAATACCAATGCCGTCTAATTGAAAAGGGAAAATAC
M2 L nucl. M4 L nucl.	GGGGTGATTGTCAGAATTACTTCAAATACCAATGCCGTCTAATTGAAAAGGGAAAATAC
GenBank L nucl.	4501 4560 AGATCACATTATTCACAATTATGGTTATTCTCAGATGTCTTATCCATAGACTTCATTGGA AGATCACATTATTCACAATTATGGTTATTCTCAGATGTCTTATCCATAGACTTCATTGGA
M2 L nucl. M4 L nucl.	AGATCACATTATTCACAATTATGGTTATTCTCAGATGTCTTATCCATAGACTTCATTGGA
GenBank L nucl. HR L nucl. M2 L nucl. M4 L nucl.	4561 4620 CCATTCTCTATTTCCACCACCCTCTTGCAAATCCTATACAAGCCATTTTTATCTGGGAAA CCATTCTCTATTTCCACCACCCTCTTGCAAATCCTATACAAGCCATTTTTATCTGGGAAA
	CCATTCTCTATTTCCACCACCCTCTTGCAAATCCTATACAAGCCATTTTTATCTGGGAAA
GenBank L nucl. HR L nucl. M2 L nucl. M4 L nucl.	4680 GATAAGAATGAGTTGAGAGAGCTGGCAAATCTTTCTTCATTGCTAAGATCAGGAGAGGGG GATAAGAATGAGTTGAGAGAGCTGGCAAATCTTTCTTCATTGCTAAGATCAGGAGAGGGG
	4681 4740
GenBank L nucl. HR L nucl.	TGGGAAGACATACATGTGAAATTCTTCACCAAGGACATATTATTGTGTCCAGAGGAAATC TGGGAAGACATACATGTGAAATTCTTCACCAAGGACATATTATTGTGTCCAGAGGAAATC
M2 L nucl. M4 L nucl.	TGGGAAGACATACATGTGAAATTCTTCACCAAGGACATATTATTGTGTCCAGAGGAAATC

GenBank L nucl. HR L nucl. M2 L nucl. M4 L nucl.	4741 AGACATGCTTGCAAGTTCGGGATTGCTAAGGATAATAATAAAGACATGAGCTATCCCCCT AGACATGCTTGCAAGTTCGGGATTGCTAAGGATAATAATAAAGACATGAGCTATCCCCCT
GenBank L nucl. HR L nucl. M2 L nucl. M4 L nucl.	4801 TGGGGAAGGGAATCCAGAGGGACAATTACAACAATCCCTGTTTATTATACGACCACCCCT TGGGGAAGGGAA
	TGGGGAAGGGAATCCAGAGGGACAATTACAACAATCCCTGTTTATTATACGACCACCCCT
GenBank L nucl. HR L nucl.	4920 TACCCAAAGATGCTAGAGATGCCTCCAAGAATCCAAAATCCCCTGCTGTCCGGAATCAGG TACCCAAAGATGCTAGAGATGCCTCCAAGAATCCAAAATCCCCTGCTGTCCGGAATCAGG
M2 L nucl. M4 L nucl.	TACCCAAAGATGCTAGAGATGCCTCCAAGAATCCAAAATCCCCTGCTGTCCGGAATCAGG
GenBank L nucl.	4921 TTGGGCCA图TTACCAACTGGCGCTCATTATAAAATTCGGAGTATATTACATGGAATGGGA TTGGGCCAGTTACCAACTGGCGCTCATTATAAAATTCGGAGTATATTACATGGAATGGGA
M2 L nucl. M4 L nucl.	TTGGGCCAGTTACCAACTGGCGCTCATTATAAAATTCGGAGTATATTACATGGAATGGGA
GenBank L nucl. HR L nucl. M2 L nucl.	4981 5040 ATCCATTACAGGGACTTCTTGAGTTGTGGAGACGGCTCCGGAGGGATGACTGCTGCATTA ATCCATTACAGGGACTTCTTGAGTTGTGGAGACGGCTCCGGAGGGATGACTGCTGCATTA
M4 L nucl.	ATCCATTACAGGGACTTCTTGAGTTGTGGAGACGGCTCCGGAGGGATGACTGCTGCATTA
GenBank L nucl. HR L nucl.	5100 CTACGAGAAAATGTGCATAGCAGAGGAATATTCAATAGTCTGTTAGAATTATCAGGGTCA CTACGAGAAAATGTGCATAGCAGAGGAATATTCAATAGTCTGTTAGAATTATCAGGGTCA
M2 L nucl. M4 L nucl.	CTACGAGAAAATGTGCATAGCAGAGGAATATTCAATAGTCTGTTAGAATTATCAGGGTCA
GenBank L nucl. HR L nucl. M2 L nucl. M4 L nucl.	5101 5160 GTCATGCGAGGCGCCTCTCCTGAGCCCCCCAGTGCCCTAGAAACTTTAGGAGGAGATAAA GTCATGCGAGGCGCCTCTCCTGAGCCCCCCAGTGCCCTAGAAACTTTAGGAGGAGATAAA
	GTCATGCGAGGCGCCTCTCCTGAGCCCCCAGTGCCCTAGAAACTTTAGGAGGAGATAAA
GenBank L nucl. HR L nucl. M2 L nucl.	5161 5220 TCGAGATGTGTAAATGGTGAAACATGTTGGGAATATCCATCTGACTTATGTGACCCAAGG TCGAGATGTGTAAATGGTGAAACATGTTGGGAATATCCATCTGACTTATGTGACCCAAGG
M4 L nucl.	TCGAGATGTGTAAATGGTGAAACATGTTGGGAATATCCATCTGACTTATGTGACCCAAGG
GenBank L nucl. HR L nucl.	5280 ACTTGGGACTATTTCCTCCGACTCAAAGCAGGCTTGGGGCTTCAAATTGATTTAATTGTA ACTTGGGACTATTTCCTCCGACTCAAAGCAGGCTTGGGGCCTTCAAATTGATTTAATTGTA
M2 L nucl. M4 L nucl.	ACTTGGGACTATTTCCTCCGACTCAAAGCAGGCTTGGGGCTTCAAATTGATTTAATTGTA

GenBank L nucl. HR L nucl.	5340 ATGGATATGGAAGTTCGGGATTCTTCTACTAGCCTGAAAATTGAGACGAATGTTAGAAAT ATGGATATGGAAGTTCGGGATTCTTCTACTAGCCTGAAAATTGAGACGAATGTTAGAAAT
M2 L nucl. M4 L nucl.	ATGGATATGGAAGTTCGGGATTCTTCTACTAGCCTGAAAATTGAGACGAATGTTAGAAAT
GenBank L nucl.	5341 TATGTGCACCGGATTTTGGATGAGCAAGGAGTTTTAATCTACAAGACTTATGGAACATAT TATGTGCACCGGATTTTGGATGAGCAAGGAGTTTTAATCTACAAGACTTATGGAACATAT
M2 L nucl. M4 L nucl.	TATGTGCACCGGATTTTGGATGAGCAAGGAGTTTTAATCTACAAGACTTATGGAACATAT
GenBank L nucl.	5401 ATTTGTGAGAGCGAAAAGAATGCAGTAACAATCCTTGGTCCCATGTTCAAGACGGTCGAC ATTTGTGAGAGCGAAAAGAATGCAGTAACAATCCTTGGTCCCATGTTCAAGACGGTCGAC
M2 L nucl. M4 L nucl.	ATTTGTGAGAGCGAAAAGAATGCAGTAACAATCCTTGGTCCCATGTTCAAGACGGTCGAC
GenBank L nucl.	5461 TTAGTTCAAACAGAATTTAGTAGTTCTCAAACGTCTGAAGTATATATGGTATGTAAAGGT TTAGTTCAAACAGAATTTAGTAGTTCTCAAACGTCTGAAGTATATATGGTATGTAAAGGT
M2 L nucl. M4 L nucl.	TTAGTTCAAACAGAATTTAGTAGTTCTCAAACGTCTGAAGTATATATGGTATGTAAAGGT
GenBank L nucl. HR L nucl. M2 L nucl.	5580 TTGAAGAAATTAATCGATGAACCCAATCCCGATTGGTCTTCCATCAATGAATCCTGGAAA TTGAAGAAATTAATCGATGAACCCAATCCCGATTGGTCTTCCATCAATGAATCCTGGAAA
M4 L nucl.	TTGAAGAAATTAATCGATGAACCCAATCCCGATTGGTCTTCCATCAATGAATCCTGGAAA
GenBank L nucl. HR L nucl.	5581 AACCTGTACGCATTCCAGTCATCAGAACAGGAATTTGCCAGAGCAAAGAAGGTTAGTACA AACCTGTACGCATTCCAGTCATCAGAACAGGAATTTGCCAGAGCAAAGAAGGTTAGTACA
M2 L nucl. M4 L nucl.	AACCTGTACGCATTCCAGTCATCAGAACAGGAATTTGCCAGAGCAAAGAAGGTTAGTACA
GenBank L nucl. HR L nucl.	5700 TACTTTACCTTGACAGGTATTCCCTCCCAATTCATTCCTGATCCTTTTGTAAACATTGAG TACTTTACCTTGACAGGTATTCCCTCCCAATTCATTCCTGATCCTTTTGTGAACATTGAG
M2 L nucl. M4 L nucl.	TACTTTACCTTGACAGGTATTCCCTCCCAATTCATTCCTGATCCTTTTGTGAACATTGAG
GenBank L nucl. HR L nucl. M2 L nucl. M4 L nucl.	5701 5760 ACTATGCTACAAATATTCGGAGTACCCACGGGTGTGTCTCATGCGGCTGCCTTAAAATCA ACTATGCTACAAATATTCGGAGTACCCACGGGTGTGTCTCATGCGGCTGCCTTAAAATCA
	ACTATGCTACAAATATTCGGAGTACCCACGGGTGTGTCTCATGCGGCTGCCTTAAAATCA
GenBank L nucl. HR L nucl.	5761 TCTGATAGACCTGCAGATTTATTGACCATTAGCCTTTTTTATATGGCGATTATATCGTAT TCTGATAGACCTGCAGATTTATTGACCATTAGCCTTTTTTATATGGCGATTATATCGTAT
M2 L nucl. M4 L nucl.	TCTGATAGACCTGCAGATTTATTGACCATTAGCCTTTTTTATATGGCGATTATATCGTAT

GenBank L nucl. HR L nucl. M2 L nucl. M4 L nucl.	5880 TATAACATCAATCATATCAGAGTAGGACCGATACCTCCGAACCCCCCATCAGATGGAATT TATAACATCAATCATATCAGAGTAGGACCGATACCTCCGAACCCCCCATCAGATGGAATT
GenBank L nucl. HR L nucl. M2 L nucl.	5940 GCACAAAATGTGGGGATCGCTATAACTGGTATAAGCTTTTGGCTGAGTTTGATGGAGAAA GCACAAAATGTGGGGATCGCTATAACTGGTATAAGCTTTTTGGCTGAGTTTGATGGAGAAA
M4 L nucl.	GCACAAAATGTGGGGATCGCTATAACTGGTATAAGCTTTTGGCTGAGTTTGATGGAGAAA 5941 6000
GenBank L nucl. HR L nucl. M2 L nucl.	GACATTCCACTATATCAACAGTGTTTAGCAGTTATCCAGCAATCATTCCCGATTAGGTGG GACATTCCACTATATCAACAGTGTTTAGCAGTTATCCAGCAATCATTCCCGATTAGGTGG
M4 L nucl.	GACATTCCACTATATCAACAGTGTTTAGCAGTTATCCAGCAATCATTCCCGATTAGGTGG
GenBank L nucl.	6001 6060 GAGGCTGTTTCAGTAAAAGGAGGATACAAGCAGAAGTGGAGTACTAGAGGTGATGGGCTC GAGGCTGTTTCAGTAAAAGGAGGATACAAGCAGAAGTGGAGTACTAGAGGTGATGGGCTC
M2 L nucl. M4 L nucl.	GAGGCTGTTTCAGTAAAAGGAGGATACAAGCAGAAGTGGAGTACTAGAGGTGATGGGCTC
GenBank L nucl.	6061 CCAAAAGATACCCGAAGTTCAGACTCCTTGGCCCCAATCGGGAACTGGATCAGATCTCTG CCAAAAGATACCCGAATTTCAGACTCCTTGGCCCCAATCGGGAACTGGATCAGATCTCTG
M2 L nucl. M4 L nucl.	CCAAAAGATACCCGAATTTCAGACTCCTTGGCCCCAATCGGGAACTGGATCAGATCTCTG
GenBank L nucl. HR L nucl. M2 L nucl. M4 L nucl.	6121 6180 GAATTGGTCCGAAACCAAGTTCGTCTAAATCCATTCAATGAGATCTTGTTCAATCAGCTA GAATTGGTCCGAAACCAAGTTCGTCTAAATCCATTCAATGAGATCTTGTTCAATCAGCTA
	GAATTGGTCCGAAACCAAGTTCGTCTAAATCCATTCAATGAGATCTTGTTCAATCAGCTA
GenBank L nucl. HR L nucl. M2 L nucl. M4 L nucl.	6181 TGTCGTACAGTGGATAATCATTTGAAATGGTCAAATTTGCGAA@AAACACAGGAATGATT TGTCGTACAGTGGATAATCATTTGAAATGGTCAAATTTGCGAAAAAACACAGGAATGATT
	TGTCGTACAGTGGATAATCATTTGAAATGGTCAAATTTGCGAAAAAACACAGGAATGATT
GenBank L nucl.	6241 GAATGGATCAATAGACGAATTTCAAAAGAAGACCGGTCTATACTGATGTTGAAGAGTGAC GAATGGATCAATAGACGAATTTCAAAAGAAGACCGGTCTATACTGATGTTGAAGAGTGAC
M2 L nucl. M4 L nucl.	GAATGGATCAATAGACGAATTTCAAAAGAAGACCGGTCTATACTGATGTTGAAGAGTGAC

GenBank L nucl.	6301 CTACA <b>G</b> GAGGAAAACTCT	TGGAGAGATTAA	6360
HR L nucl.	CTACATGAGGAAAACTCT	TGGAGAGATTAAAAAATCATGAGGAGACTCCAAACTTT	AAGT
M2 L nucl. M4 L nucl.	CTACATGAGGAAAACTCT	TGGAGAGATTAA	• • • •
	6361	6395	
GenBank L nucl			

## **FIGURE 22-13**

G	1 60
GenBank L a.a HR L a.a.	. MEVHDFETDEFNDFNEDDYATREFLNPDERMTYLNHADYNLNSPLISDDIDNLIRKFNSL
M4 L a.a.	MEVHDFETDEFNDFNEDDYATREFLNPDERMTYLNHADYNLNSPLISDDIDNLIRKFNSL
GenBank L a.a	61 PIPSMWDSKNWDGVLEMLTSCQANPISTSQMHKWMGSWLMSDNHDASQGYSFLHEVDKEA
HR L a.a. M4 L a.a.	PIPSMWDSKNWDGVLEMLTSCQANPISTSQMHKWMGSWLMSDNHDASQGYSFLHEVDKEA
GenBank L a.a HR L a.a.	121 . EITFDVVETFIRGWGNKPIEYIKKERWTDSFKILAYLCQKFLDLHKLTLILNAVSEVELL
M4 L a.a.	EITFDVVETFIRGWGNKPIEYIKKERWTDSFKILAYLCQKFLDLHKLTLILNAVSEVELL
GenBank L a.a HR L a.a.	181 . NLARTFKGKVRRSSHGTNICR國RVPSLGPTFISEGWAYFKKLDILMDRNFLLMVKDVIIG
M4 L a.a.	NLARTFKGKVRRSSHGTNICRERVPSLGPTFISEGWAYFKKLDILMDRNFLLMVKDVIIG
GenBank L a.a HR L a.a.	241 . RMQTVLSMVCRIDNLFSEQDIFSLLNIYRIGDKIVERQGNFSYDLIKMVEPICNL置LMKL
M4 L a.a.	RMQTVLSMVCRIDNLFSEQDIFSLLNIYRIGDKIVERQGNFSYDLIKMVEPICNLQLMKL
GenBank L a.a HR L a.a. M4 L a.a.	360 ARESRPLVPQFPHFENHIKTSVDEGAKIDRGIRFLHDQIMSVKTVDLTLVIYGSFRHWGHHWGH ARESRPLVPQFPHFENHIKTSVDEGAKIDRGIRFLHDQIMSVKTVDLTLVIYGSFRHWGH
GenBank L a.a HR L a.a. M4_L.pro	361 PFIDYY園GLEKLHSQVTMKKDIDVSYAKALASDLARIVLFQQFNDHKKWFVNGDLLPHDH PFIDYYAGLEKLHSQVT図KKDIDVSYAKALASDLARIVLFQQFNDH図KWFVNGDLLPHDH PFIDYYAGLEKLHSQVTMKKDIDVSYAKALASDLARIVLFQQFNDHKKWFVNGDLLPHDH
GenBank L a.a HR L a.a. M4 L a.a.	421 PFKSHVKENTWPTAAQVQDFGDKWHELPLIKCFEIPDLLDPSIIYSDKSHSMNRSEVLKH PFKSHVKENTWPTAAQVQDFGDKWHELPLIKCFEIPDLLDPSIIYSDKSHSMNRSEVLKH PFKSHVKENTWPTAAQVQDFGDKWHELPLIKCFEIPDLLDPSIIYSDKSHSMNRSEVLKH
GenBank L a.a. HR L a.a. M4 L a.a.	481 VRMNPNTPIPSKKVLQTMLDTKATNWKEFLKEIDEKGLDDDDLIIGLKGKERELKLAGRF VRMNPNTPIPSKKVLQTMLDTKATNWKEFLKEIDEKGLDDDDLIIGLKGKERELKLAGRF VRMNPNTPIPSKKVLQTMLDTKATNWKEFLKEIDEKGLDDDDLIIGLKGKERELKLAGRF
GenBank L a.a HR L a.a. M4 L a.a.	541 FSLMSWKLREYFVITEYLIKTHFVPMFKGLTMADDLTAVIKKMLDSSSGQGLKSYEAICI FSLMSWKLREYFVITEYLIKTHFVPMFKGLTMADDLTAVIKKMLDSSSGQGLKSYEAICI FSLMSWKLREYFVITEYLIKTHFVPMFKGLTMADDLTAVIKKMLDSSSGQGLKSYEAICI

GenBank L a.a HR L a.a. M4 L a.a.	660 ANHIDYEKWNNHQRKLSNGPVFRVMGQFLGYPSLIERTHEFFEKSLIYYNGRPDLMRVHN ANHIDYEKWNNHQRKLSNGPVFRVMGQFLGYPSLIERTHEFFEKSLIYYNGRPDLMRVHN ANHIDYEKWNNHQRKLSNGPVFRVMGQFLGYPSLIERTHEFFEKSLIYYNGRPDLMRVHN
GenBank L a.a HR L a.a. M4 L a.a.	
GenBank L a.a HR L a.a. M4 L a.a.	721 QYKTKKSRNVVELQGALNQMVSNNEKIMTAIKIGTGKLGLLINDDETMQSADYLNYGKIP QYKTKKSRNVVELQGALNQMVSNNEKIMTAIKIGTGKLGLLINDDETMQSADYLNYGKIP QYKTKKSRNVVELQGALNQMVSNNEKIMTAIKIGTGKLGLLINDDETMQSADYLNYGKIP
GenBank L a.a HR L a.a. M4 L a.a.	781 IFRGVIRGLETKRWSRVTCVTNDQIPTCANIMSSVSTNALTVAHFAENPINAMIQYNYFG IFRGVIRGLETKRWSRVTCVTNDQIPTCANIMSSVSTNALTVAHFAENPINAMIQYNYFG IFRGVIRGLETKRWSRVTCVTNDQIPTCANIMSSVSTNALTVAHFAENPINAMIQYNYFG
GenBank L a.a HR L a.a. M4 L a.a.	900 TFARLLLMMHDPALRQSLYEVQDKIPGLHSSTFKYAMLYLDPSIGGVSGMSLSRFLIRAF TFARLLLMMHDPALRQSLYEVQDKIPGLHSSTFKYAMLYLDPSIGGVSGMSLSRFLIRAF TFARLLLMMHDPALRQSLYEVQDKIPGLHSSTFKYAMLYLDPSIGGVSGMSLSRFLIRAF
GenBank L a.a HR L a.a. M4 L a.a.	901 PDPVTESLSFWRFIHVHARSEHLKEMSAVFGNPEIAKFRITHIDKLVEDPTSLNIAMGMS PDPVTESLSFWRFIHVHARSEHLKEMSAVFGNPEIAKFRITHIDKLVEDPTSLNIAMGMS PDPVTESLSFWRFIHVHARSEHLKEMSAVFGNPEIAKFRITHIDKLVEDPTSLNIAMGMS
GenBank L a.a HR L a.a. M4 L a.a.	961 PANLLKTEVKKCLIESRQTIRNQVIKDATIYLYHEEDRLRSFLWSINPLFPRFLSEFKSG PANLLKTEVKKCLIESRQTIRNQVIKDATIYLYHEEDRLRSFLWSINPLFPRFLSEFKSG PANLLKTEVKKCLIESRQTIRNQVIKDATIYLYHEEDRLRSFLWSINPLFPRFLSEFKSG
GenBank L a.a HR L a.a. M4 L a.a.	1021 TFLGVADGLISLFQNSRTIRNSFKKKYHRELDDLIVRSEVSSLTHLGKLHLRRGSCKMWT TFLGVADGLISLFQNSRTIRNSFKKKYHRELDDLIVRSEVSSLTHLGKLHLRRGSCKMWT TFLGVADGLISLFQNSRTIRNSFKKKYHRELDDLIVRSEVSSLTHLGKLHLRRGSCKMWT
GenBank L a.a HR L a.a. M4 L a.a.	1081 CSATHADTLRYKSWGRTVIGTTVPHPLEMLGPQHRKETPCAPCNTSGFNYVSVHCPDGIH CSATHADTLRYKSWGRTVIGTTVPHPLEMLGPQHRKETPCAPCNTSGFNYVSVHCPDGIH CSATHADTLRYKSWGRTVIGTTVPHPLEMLGPQHRKETPCAPCNTSGFNYVSVHCPDGIH
GenBank L a.a HR L a.a. M4 L a.a.	1141 DVFSSRGPLPAYLGSKTSESTSILQPWERESKVPLIKRATRLRDAISWFVEPDSKLAMTI DVFSSRGPLPAYLGSKTSESTSILQPWERESKVPLIKRATRLRDAISWFVEPDSKLAMTI DVFSSRGPLPAYLGSKTSESTSILQPWERESKVPLIKRATRLRDAISWFVEPDSKLAMTI

GenBank L HR L a.a. M4 L a.a.	a.a.	1260 LSNIHSLTGEEWTKRQHGFKRTGSALHRFSTSRMSHGGFASQSTAALTRLMATTDTMRDL LSNIHSLTGEEWTKRQHGFKRTGSALHRFSTSRMSHGGFASQSTAALTRLMATTDTMRDL LSNIHSLTGEEWTKRQHGFKRTGSALHRFSTSRMSHGGFASQSTAALTRLMATTDTMRDL
GenBank L HR L a.a. M4 L a.a.	a.a.	1320 GDQNFDFLFQATLLYAQITTTVARDGWITSCTDHYHIACKSCLRPIEEITLDSSMDYTPP GDQNFDFLFQATLLYAQITTTVARDGWITSCTDHYHIACKSCLRPIEEITLDSSMDYTPP GDQNFDFLFØATLLYAØITTTVARDGWITSCTDHYHIACKSCLRPIEEITLDSSMDYTPP
GenBank L HR L a.a. M4 L a.a.	a.a.	1321 DVSHVLKTWRNGEGSWGQEIKQIYPLEGNWKNLAPAEQSYQVGRCIGFLYGDLAYRKSTH DVSHVLKTWRNGEGSWGQEIKQIYPLEGNWKNLAPAEQSYQVGRCIGFLYGDLAYRKSTH DVSHVLKTWRNGEGSWGQEIKQIYPLEGNWKNLAPAEQSYQVGRCIGFLYGDLAYRKSTH
GenBank L HR L a.a. M4 L a.a.	a.a.	1381 AEDSSLFPLSIQGRIRGRGFLKGLLDGLMRASCCQVIHRRSLAHLKRPANAVYGGLIYLI AEDSSLFPLSIQGRIRGRGFLKGLLDGLMRASCCQVIHRRSLAHLKRPANAVYGGLIYLI AEDSSLFPLSIQGRIRGRGFLKGLLDGLMRASCCQVIHRRSLAHLKRPANAVYGGLIYLI
GenBank L HR L a.a. M4 L a.a.	a.a.	1500 DKLSVSPPFLSLTRSGPIRDELETIPHKIPTSYPTSNRDMGVIVRNYFKYQCRLIEKGKY DKLSVSPPFLSLTRSGPIRDELETIPHKIPTSYPTSNRDMGVIVRNYFKYQCRLIEKGKY DKLSVSPPFLSLTRSGPIRDELETIPHKIPTSYPTSNRDMGVIVRNYFKYQCRLIEKGKY
GenBank L HR L a.a. M4 L a.a.	a.a.	1560 RSHYSQLWLFSDVLSIDFIGPFSISTTLLQILYKPFLSGKDKNELRELANLSSLLRSGEG RSHYSQLWLFSDVLSIDFIGPFSISTTLLQILYKPFLSGKDKNELRELANLSSLLRSGEG RSHYSQLWLFSDVLSIDFIGPFSISTTLLQILYKPFLSGKDKNELRELANLSSLLRSGEG
GenBank L HR L a.a. M4 L a.a.	a.a.	1561 WEDIHVKFFTKDILLCPEEIRHACKFGIAKDNNKDMSYPPWGRESRGTITTIPVYYTTTP WEDIHVKFFTKDILLCPEEIRHACKFGIAKDNNKDMSYPPWGRESRGTITTIPVYYTTTP WEDIHVKFFTKDILLCPEEIRHACKFGIAKDNNKDMSYPPWGRESRGTITTIPVYYTTTP
GenBank L HR L a.a. M4 L a.a.	a.a.	1680 YPKMLEMPPRIQNPLLSGIRLGQLPTGAHYKIRSILHGMGIHYRDFLSCGDGSGGMTAAL YPKMLEMPPRIQNPLLSGIRLGQLPTGAHYKIRSILHGMGIHYRDFLSCGDGSGGMTAAL YPKMLEMPPRIQNPLLSGIRLGQLPTGAHYKIRSILHGMGIHYRDFLSCGDGSGGMTAAL
GenBank L HR L a.a. M4 L a.a.	a.a.	1740 LRENVHSRGIFNSLLELSGSVMRGASPEPPSALETLGGDKSRCVNGETCWEYPSDLCDPR LRENVHSRGIFNSLLELSGSVMRGASPEPPSALETLGGDKSRCVNGETCWEYPSDLCDPR LRENVHSRGIFNSLLELSGSVMRGASPEPPSALETLGGDKSRCVNGETCWEYPSDLCDPR
GenBank L HR L a.a. M4 L a.a.	a.a.	1741 1800 TWDYFLRLKAGLGLQIDLIVMDMEVRDSSTSLKIETNVRNYVHRILDEQGVLIYKTYGTY TWDYFLRLKAGLGLQIDLIVMDMEVRDSSTSLKIETNVRNYVHRILDEQGVLIYKTYGTY TWDYFLRLKAGLGLQIDLIVMDMEVRDSSTSLKIETNVRNYVHRILDEQGVLIYKTYGTY
GenBank L HR L a.a. M4 L a.a.	a.a.	1860 ICESEKNAVTILGPMFKTVDLVQTEFSSSQTSEVYMVCKGLKKLIDEPNPDWSSINESWK ICESEKNAVTILGPMFKTVDLVQTEFSSSQTSEVYMVCKGLKKLIDEPNPDWSSINESWK ICESEKNAVTILGPMFKTVDLVQTEFSSSQTSEVYMVCKGLKKLIDEPNPDWSSINESWK

GenBank L HR L a.a. M4 L a.a.	a.a.	1920 NLYAFQSSEQEFARAKKVSTYFTLTGIPSQFIPDPFVNIETMLQIFGVPTGVSHAAALKS NLYAFQSSEQEFARAKKVSTYFTLTGIPSQFIPDPFVNIETMLQIFGVPTGVSHAAALKS NLYAFQSSEQEFARAKKVSTYFTLTGIPSQFIPDPFVNIETMLQIFGVPTGVSHAAALKS
GenBank L HR L a.a. M4 L a.a.	a.a.	1921 1980 SDRPADLLTISLFYMAIISYYNINHIRVGPIPPNPPSDGIAQNVGIAITGISFWLSLMEK SDRPADLLTISLFYMAIISYYNINHIRVGPIPPNPPSDGIAQNVGIAITGISFWLSLMEK SDRPADLLTISLFYMAIISYYNINHIRVGPIPPNPPSDGIAQNVGIAITGISFWLSLMEK
GenBank L HR L a.a. M4 L a.a.	a.a.	1981 2040 DIPLYQQCLAVIQQSFPIRWEAVSVKGGYKQKWSTRGDGLPKDTRESDSLAPIGNWIRSL DIPLYQQCLAVIQQSFPIRWEAVSVKGGYKQKWSTRGDGLPKDTRISDSLAPIGNWIRSL DIPLYQQCLAVIQQSFPIRWEAVSVKGGYKQKWSTRGDGLPKDTRISDSLAPIGNWIRSL
GenBank L HR L a.a. M4 L a.a.	a.a.	2041 2100 ELVRNQVRLNPFNEILFNQLCRTVDNHLKWSNLRRNTGMIEWINRRISKEDRSILMLKSD ELVRNQVRLNPFNEILFNQLCRTVDNHLKWSNLRKNTGMIEWINRRISKEDRSILMLKSD ELVRNQVRLNPFNEILFNQLCRTVDNHLKWSNLRKNTGMIEWINRRISKEDRSILMLKSD
GenBank L HR L a.a. M4 L a.a.	a.a.	2101 2110 LHEENSWRD LHEENSWRD LHEENSWRD

## FIGURE 23-4